

Term Information

Effective Term Autumn 2022

General Information

Course Bulletin Listing/Subject Area Horticulture and Crop Science
Fiscal Unit/Academic Org Horticulture & Crop Science - D1127
College/Academic Group Food, Agric & Environ Science
Level/Career Undergraduate
Course Number/Catalog 2204
Course Title Ecology of Managed Plant Systems
Transcript Abbreviation Ecol Manag Plt Sys
Course Description Origin, diversification, and biogeography of plants inhabiting managed landscapes.
Semester Credit Hours/Units Fixed: 3

Offering Information

Length Of Course 14 Week, 12 Week
Flexibly Scheduled Course Never
Does any section of this course have a distance education component? No
Grading Basis Letter Grade
Repeatable No
Course Components Lecture
Grade Roster Component Lecture
Credit Available by Exam No
Admission Condition Course No
Off Campus Never
Campus of Offering Columbus, Lima, Mansfield, Marion, Newark, Wooster

Prerequisites and Exclusions

Prerequisites/Corequisites
Exclusions 2201
Electronically Enforced Yes

Cross-Listings

Cross-Listings

Subject/CIP Code

Subject/CIP Code 01.1103
Subsidy Level Baccalaureate Course
Intended Rank Freshman, Sophomore

Requirement/Elective Designation

Required for this unit's degrees, majors, and/or minors
Sustainability

Course Details

Course goals or learning objectives/outcomes

- Be able to recognize and describe the characteristics of representative families and genera found in croplands, forests, and urban/suburban landscapes.
- Be familiar with the basic principles and concepts of taxonomy, phylogeny, evolution, genetics and speciation as they relate to crops, ornamental plants, and weeds.
- Understand the biotic and abiotic factors influencing production of food, fiber and fuel from managed ecosystems
- Understand the ecological basis for sustainable practices in managed ecosystems.

Content Topic List

- Introduction to Agroecology
 - Classification & Systematics
 - Origins & Domestication
 - Basic Genetics & Breeding
 - GMOs
 - Plant variation & Cultivars
 - Agricultural Experimentation
 - Climate and Weather Systems
 - The Plant Environment
 - Nutrients & Soil
 - Interactions Between Organisms (competition, insects, disease, weeds)
 - Structure of Managed Ecosystems
 - Plants and People
- Yes

Sought Concurrence

Attachments

- submission-sustainability HCS2204.pdf: GE Submission - sustainability
(Other Supporting Documentation. Owner: Luikart, Meredith Marie)
- GE Submission Checklist HCS2204.docx: GE checklist
(Other Supporting Documentation. Owner: Luikart, Meredith Marie)
- Concurrence_SENR.pdf: Concurrence - SENR
(Concurrence. Owner: Luikart, Meredith Marie)
- Concurrence from FCOB.pdf: Concurrence - Fischer College of Business
(Concurrence. Owner: Luikart, Meredith Marie)
- Concurrence - COE 2204_2205.pdf: Concurrence - Engineering
(Concurrence. Owner: Luikart, Meredith Marie)
- Ohio_State_Course_Review_Concurrence_Form_EEOB_2204 signed.pdf: Concurrence EEOB
(Concurrence. Owner: Luikart, Meredith Marie)
- HCS2204 revised 8Feb2022.docx: Revised Syllabus
(Syllabus. Owner: Luikart, Meredith Marie)

Comments

- Returned per Department request

Additional revision needed as per email 7 Feb 2022

Revise as per COAA via email 24 January 2022

Revise as per email 17 January 2022 *(by Osborne, Jeanne Marie on 02/08/2022 04:05 PM)*

- make required *(by Barker, David John on 01/13/2022 03:12 PM)*

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Luikart, Meredith Marie	01/13/2022 03:05 PM	Submitted for Approval
Revision Requested	Barker, David John	01/13/2022 03:12 PM	Unit Approval
Submitted	Luikart, Meredith Marie	01/13/2022 03:16 PM	Submitted for Approval
Approved	Barker, David John	01/13/2022 03:20 PM	Unit Approval
Revision Requested	Osborne, Jeanne Marie	01/18/2022 10:09 AM	College Approval
Submitted	Luikart, Meredith Marie	01/19/2022 09:00 AM	Submitted for Approval
Approved	Barker, David John	01/19/2022 10:07 AM	Unit Approval
Revision Requested	Osborne, Jeanne Marie	01/24/2022 01:41 PM	College Approval
Submitted	Luikart, Meredith Marie	02/03/2022 10:29 AM	Submitted for Approval
Approved	Barker, David John	02/03/2022 12:46 PM	Unit Approval
Revision Requested	Osborne, Jeanne Marie	02/07/2022 02:10 PM	College Approval
Submitted	Luikart, Meredith Marie	02/07/2022 02:56 PM	Submitted for Approval
Approved	Barker, David John	02/07/2022 03:10 PM	Unit Approval
Revision Requested	Osborne, Jeanne Marie	02/08/2022 04:05 PM	College Approval
Submitted	Luikart, Meredith Marie	02/08/2022 04:27 PM	Submitted for Approval
Approved	Barker, David John	02/08/2022 04:27 PM	Unit Approval
Approved	Osborne, Jeanne Marie	02/09/2022 04:25 PM	College Approval
Pending Approval	Cody, Emily Kathryn Jenkins, Mary Ellen Bigler Hanlin, Deborah Kay Hilty, Michael Vankeerbergen, Bernadette Chantal Steele, Rachel Lea	02/09/2022 04:25 PM	ASCCAO Approval

Ecology of Managed Plant Systems

HCS2204 Autumn 2022

Course Information

- **Course times and location:** Three 55-min lectures, MWF 9:10-10:05 am, Kottman Hall Room 103
- **Credit hours:** 3
- **Mode of delivery:** In person

Instructor

Dr David Barker,
Email: barker.169@osu.edu
Phone: 614-247-6258
226 Kottman Hall
Office hours: TBD

- **Preferred contact method:** First contact with any instructor should be an Ohio State email address. Students should receive a response within **24 hours** on weekdays.

Teaching Assistant

- TBD

Course Prerequisites

None

Course Exclusions

HCS2201

Course Description

Origin, diversification, and biogeography of plants inhabiting managed landscapes.



Learning Outcomes

On completion of this course, students will:

1. Be able to recognize and describe the characteristics of representative families and genera found in croplands, forests, and urban/suburban landscapes.
2. Be familiar with the basic principles and concepts of taxonomy, phylogeny, evolution, genetics and speciation as they relate to crops, ornamental plants, and weeds.
3. Understand the biotic and abiotic factors influencing production of food, fiber and fuel from managed ecosystems
4. Understand the ecological basis for sustainable practices in managed ecosystems.

General Education Goals and Expected Learning Outcomes

As part of the Sustainability Theme of the General Education curriculum, this course is designed with the following Goals and Expected Learning Outcomes:

Goal 1: Successful students will analyze sustainability at a more advanced and in-depth level than in the Foundations component.

- 1.1 Engage in critical and logical thinking about the topic or idea of sustainability.
- 1.2 Engage in an advanced, in-depth, scholarly exploration of the topic or idea of sustainability.

Goal 2: Successful students will integrate approaches to sustainability by making connections to out-of- classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.

- 2.1 Identify, describe and synthesize approaches or experiences as they apply to sustainability.
- 2.2 Demonstrate a developing sense of self as a learner through reflection, self-assessment and creative work, building on prior experiences to respond to new and challenging contexts.

Goal 3: Successful students will analyze and explain how social and natural systems function, interact and evolve over time; how human well-being depends on these interactions; how actions have impacts on subsequent generations and societies globally; and how human values, behaviors and institutions impact multifaceted potential solutions across time.

- 3.1 Describe elements of the fundamental dependence of humans on Earth and environmental systems, and on the resilience of these systems.
- 3.2 Describe, analyze and critique the roles and impacts of human activity and technology on both human society and the natural world, in the past, present and future.
- 3.3 Devise informed and meaningful responses to problems and arguments in the area of sustainability based on the interpretation of appropriate evidence and an explicit statement of values.



This course fulfills the General Education learning objectives for the Sustainability Theme by:

- Engaging in critical and logical thinking about the topic of sustainability through a series of lectures, discussions, and writing (PackBack) with a focus on sustainability and managed plant ecosystems (i.e. the agroecosystem). Weekly reflective writing assignments will require the students to study and understand the agroecosystem, and the genetic, biotic and abiotic factors affecting the plant we use.
- Engaging in an advanced, in-depth, and scholarly exploration through a semester-long study of the variety of agroecosystems used in western and global communities.
- Identifying, describing, and photographing 15 plant species, and describing the impact of each species on the sustainability of the agroecosystem.
- Demonstrating a developing sense of self as a learner through reflection, self-assessment, and creative work, building on prior experiences to respond to new and challenging contexts. Throughout the semester, students will submit written observations of sustainable (or not) practices and responses to questions posed by their classmates that relate to topics raised in lectures each week. These interactions will allow students to build on their knowledge throughout the semester.
- Describing elements of the fundamental dependence of humans on Earth and environmental systems, and on the resilience of these systems through lectures and discussions emphasizing the impact of human production systems on community and the local and global environment.
- Describing, analyzing, and critiquing the roles and impacts of human activity and technology on both human society and the natural world through an evaluation of the delicate balance between the needs and desires of a growing population and the natural resources required to meet these demands in the future.
- Devising informed and meaningful responses to problems and arguments in sustainability based on the interpretation of appropriate evidence and an explicit statement of values. Knowledge gained will provide students with the understanding required to evaluate the impact on sustainability for a variety of conventional and 'unconventional' production systems. The experiences from the course will allow the student to make informed decisions about the impact of these practices on sustainability.



How This Course Works

Mode of delivery: This course is in person. Three lecture sessions per week will be delivered in person.

Credit hours and work expectations: This is a 3-credit-hour course. According to [Ohio State bylaws on instruction](https://go.osu.edu/credit-hours) (go.osu.edu/credit hours), students should expect around 3 hours per week of time spent on direct instruction in addition to 6 hours of homework 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, we expect that students will attend class and regularly contribute to discussions. If you're unable to attend class, the mid-term exam, or meet any of the required deadlines due to a health or personal issue, please contact Dr Barker to determine what make-up options there might be.

Course Materials, Fees, and Technologies

Required Materials and/or Technologies

Textbooks/Readings:

Required

- o all required reading materials are posted in Carmen

Optional

- o Plant Science – Growth Development and Utilization of Cultivated Plants 5th ed. McMahon, Kofranek & Rubatzky. Publ. Prentice Hall
- o Additional resources are posted in Carmen

Required Equipment

- **Computer:** current Mac (MacOS) or PC (Windows 10) with high-speed internet connection.
- **Other:** a mobile device (smartphone or tablet) to use for BuckeyePass authentication

If the student does not have access to the technologies, options for [technology and internet access](https://go.osu.edu/student-tech-access) (go.osu.edu/student-tech-access) should be considered.

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

Each student will need to use [BuckeyePass](http://buckeyepass.osu.edu) (buckeyepass.osu.edu) multi-factor authentication to access this course in Carmen. To ensure connection to Carmen, the following is recommended:

- Register multiple devices in case something happens to your primary device. Visit the [BuckeyePass - Adding a Device](http://go.osu.edu/add-device) (go.osu.edu/add-device) help article for step-by-step instructions.
- Request passcodes to keep as a backup authentication option. When you see the Duo login screen on your computer, click **Enter a Passcode** and then click the **Text me new codes** button that appears. This will text you ten passcodes, good for 365 days, that can each be used once.
- [Install the Duo Mobile application](http://go.osu.edu/install-duo) (go.osu.edu/install-duo) 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 these options do not work, contact the IT Service Desk at [614-688-4357 \(HELP\)](tel:614-688-4357) and IT support staff will provide a solution.

Technology Skills Needed for This Course

- Basic computer and web-browsing skills
- [Navigating CarmenCanvas](http://go.osu.edu/canvasstudent) (go.osu.edu/canvasstudent)
- [CarmenZoom virtual meetings](http://go.osu.edu/zoom-meetings) (go.osu.edu/zoom-meetings)
- [Recording a slide presentation with audio narration and recording, editing and uploading video](http://go.osu.edu/video-assignment-guide) (go.osu.edu/video-assignment-guide)

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
- **Phone:** [614-688-4357 \(HELP\)](tel:614-688-4357)
- **Email:** servicedesk@osu.edu

PackBack Questions

Participation is a requirement for this course, and the Packback Questions platform will be used for online discussion about class topics. Packback Questions is an online community where you can be fearlessly curious and ask open-ended questions to build on top of what we are covering in class and relate topics to real-world applications.

Packback Requirements:

Your participation in PackBack will count toward 25% of your overall course grade.

The deadline will be Sunday at 11:59 pm EST for weekly submissions. In order to receive your points per week, you should submit the following per each deadline period:

- 1 open-ended Question per week with a threshold Curiosity Score of 60, each worth 5pts of each assignment grade
- 2 Responses per week with a threshold Curiosity Score of 60, each worth 10pts of each assignment grade
- Pro-rated credit will be provided for questions and responses that do not meet the minimum curiosity score.

How to Register on Packback:

An email invitation will be sent to you from help@packback.co prompting you to finish registration. If you don't receive an email (be sure to check your spam), you may register by following the instructions below:

1. Create an account by navigating to <https://questions.packback.co> and clicking "Sign up for an Account"

Note: If you already have an account on Packback you can log in with your credentials.

2. Then enter our class community's lookup key into the "Looking to join a community you don't see here?" section in Packback at the bottom of the homepage.

Community Lookup Key: 20eef42e-6763-4be7-9466-8e63a91da6eb

3. Follow the instructions on your screen to finish your registration.

Packback may require a paid subscription. Refer to www.packback.co/product/pricing for more information.

How to Get Help from the Packback Team:

If you have any questions or concerns about Packback throughout the semester, please read their FAQ at help.packback.co. If you need more help, contact their customer support team directly at help@packback.co.

For a brief introduction to Packback Questions and why we are using it in class, watch this video: vimeo.com/packback/Welcome-to-Packback-Questions



Grading and Faculty Response

How Your Grade is Calculated

Assignment Category	Points
Weekly Reports - PackBack (13 questions and 26 responses) (weekly)	25
Examinations	
Mid-semester (7 th week of semester)	25
Final	25
Plant Collection (9 th week of semester)	25
Total	100

See Course Schedule in Carmen for due dates.

Descriptions of Major Course Assignments

Weekly Reports (25%)

Description: One question of your own (1 paragraph), and two responses to questions from others (1 paragraph, each) on topics related to the week's lectures are required per week (due Sunday 11:59 pm). Grading will be assigned by PackBack based on the quality of the questions and answers. When you rely on published work, the citation should be included.

Academic integrity and collaboration: All written weekly reports must be the original work of the student.

Examinations (25% each)

Description: One mid-semester examination will take place in class during the 7th week of the semester, and one final examination will take place during the university assigned time for this course. The exams will include questions based on information presented and discussed throughout the semester as identified in the Course Schedule.

Academic integrity and collaboration: All answers to examination questions must be the original work of the student.

Plant collection (25%)

Description: An original collection of 15 plant species is required for each student. These plants must represent at least 8 plant families. The collection should comprise digital photographs of the plant; comprising 1 photograph of the complete plant, and 1 close-up photograph of anatomical plant features (flowers, leaves, bark, roots, specialized structures). The collection should be compiled as a Power-Point file, with annotations, and uploaded to Carmen, during the 9th week. Grading the collection will be based on correctness of identification, quality of photographs, and a written description. The plant collection will include labelled photographs, a 100-word written description for each species, and a 120-word description for 8 families. Additional detail about the suitable species and tips for writing will be provided in class. When you rely on published work, the citation should be included.

Academic integrity and collaboration: All photographs and written descriptions must be the original work of the student.

Late Assignments

Due dates for weekly PackBack reports are on Sunday 11:59 pm of every week beginning with the second week of the semester. In case of emergencies and other circumstances that prevent you from turning in an assignment on time, please contact Dr. Barker as soon as possible by email. Official documentation (e.g., from a doctor's office, hospital or interviewer) might be required.

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-HELP** at any time if you have a technical problem.)

- **Preferred contact method:** First contact should be at Ohio State email address. Students should receive a response within **24 hours** on weekdays.
- **Class announcements:** All important class-wide messages will be posted on the Announcements tool in CarmenCanvas.
- **Grading and feedback:** Grades for all assignments submitted before the due date will be posted within seven days. Additional feedback on assignment and grades will be arranged through an appointment. Assignments submitted after the due date may have reduced feedback and grades may take longer to be posted.

Grading Scale

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



Other Course Policies

Discussion and Communication Guidelines

The following are our 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.

E-Mail Etiquette: Professional relationships should be maintained when using e-mail for a class. Below I have included guidelines from Bloomsbury's guide on email etiquette that you should follow when drafting your e-mail. I will not respond to e-mails that I consider inappropriate. I will respond to appropriate emails in a timely manner, do not expect an immediate reply.

DO

- Include a descriptive statement in the subject line.
- Use proper salutations when beginning an e-mail.
- Be concise in the body of the e-mail, use complete sentences and proper grammar.
- Use an appropriate closure at the end of each e-mail followed by your first and last name.
- If replying to an e-mail, reference the original e-mail and its content.
- Be selective of your choice of words. Emotions are difficult to convey in text and without the benefit of facial expressions your sentiment can be lost in the words you choose to write.



DON'T

- Use all capital letters; this conveys a tone of ANGER.
- Use e-mail as a format to criticize other individuals.
- Ask for your grade via e-mail. Grades will not be discussed by e-mail. If you need to discuss a graded item make an appointment to do so in my office.
- E-mail to inquire when grades will be posted. We will work toward submitting grades promptly, however, recognize that grading assignments and exams requires considerable time to ensure uniformity and fairness.
- Send an e-mail out of frustration or anger. Learn to save the e-mail as a draft and review at a later time when emotions are not directing the content.

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 me.

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.

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 Office of Institutional Equity:

1. Online reporting form at equity.osu.edu,
2. Call 614-247-5838 or TTY 614-688-8605,
3. Or Email equity@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 Office of Institutional Equity 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 are located on the Carmen site for this course; and can also be found at <https://go.osu.edu/principlesofcommunity>. For additional information on Diversity, Equity, and Inclusion in CFAES, contact the CFAES Office for Diversity, Equity, and Inclusion (<https://equityandinclusion.cfaes.ohio-state.edu/>). If you have been a victim of or a witness to a bias incident, you can report it online and anonymously (if you choose) at <https://equity.osu.edu/>.

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 Counseling and Consultation Services (CCS) by visiting 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 National Suicide Prevention Hotline at 1-(800)-273-TALK or at suicidepreventionlifeline.org

David Wirt, wirt.9@osu.edu, is the CFAES embedded mental health counselor. He is available for new consultations and to establish routine care. To schedule with David, please call 614-292-5766. Students should mention their affiliation with CFAES when setting up a phone screening.

Accessibility Accommodations for Students with Disabilities

The university strives to make all learning experiences as accessible as possible. In light of the current pandemic, students seeking to request COVID-related accommodations may do so through the

university's request process, managed by Student Life Disability Services. 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. SLDS contact information: slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 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)

This course uses video and audio recordings of class lectures, student presentations, and related materials. These recordings are available to all students presently enrolled in the course. Please note that you are not allowed to share these recordings. This is to protect your FERPA rights and those of your fellow students.

Health & Safety Requirements:

Health and safety requirements: All students, faculty and staff are required to comply with and stay up to date on all university safety and health guidance (<https://safeandhealthy.osu.edu>). Non-compliance will result in a warning first, and disciplinary actions will be taken for repeated offenses.

Land Acknowledgement Statement (adapted from Michael V. Drake Institute for Teaching and Learning, <https://drakeinstitute.osu.edu/about/mission-vision-values-and-goals>)

We would like to acknowledge the land that The Ohio State University occupies is the ancestral and contemporary lands of the Shawnee, Potawatomi, Delaware, Miami, Peoria, Seneca, Wyandotte, Ojibwe and Cherokee peoples. The university resides on land ceded in the 1795 Treaty of Greenville and the forced removal of tribes through the Indian Removal Act of 1830. We honor the resiliency of these tribal nations and recognize the historical contexts that have and continue to affect the Indigenous peoples of this land.

Course Schedule

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

Course Schedule

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

	Topic	Week	Text Reading
			McMahon 5 th ed
	Unit I: Introduction to Agroecology	1	Chapter 1 (p 2-16)
Plant Diversity	Unit II: Classification & Systematics	2	Chapter 10 (p 198-199)
	Unit III: Origins & Domestication	3	Chapter 10 (p 205-214)
	Unit IV: Basic Genetics & Breeding	3-4	Chapter 9 (p 158-167)
	Unit V: GMOs	4-5	Chapter 9 (p 166)
	Unit VI: Plant variation & Cultivars	5-6	Chapter 10 (p 215-219)
	Unit VII. Agricultural Experimentation	7	Chapter 1 (p 11-15)
Abiotic Factors	Unit VIII: Climate and Weather Systems	8	Chapter 4 (p 45-47)
	Unit IX: The Plant Environment	9	Chapter 4 (p 48-56)
	Unit X: Nutrients & Soil	10-11	Chapter 5 (p 62-76) Chapter 13 (p251-264)
Biotic Factor	Unit XI: Interactions Between Organisms (competition, insects, disease, weeds)	12-13	Chapter 15 (p 296-339)
Production Systems	Unit XII: Structure of Managed Ecosystems	13	Chapter 2 (p 17-32)
	Unit XIII: Plants and People	13-14	Chapter 3 (p 33-44)



Topics:

- Unit I. Introduction to Agroecology:** Population, community, agro-ecosystem, ecological paradigm, sustainability, ecological footprint.
- Unit II. Plant classification and systematics:** 2 classes (monocots, dicots), 8 families (Apiaceae, Asteraceae, Brassicaceae, Fabaceae, Lamiaceae, Poaceae, Rosaceae, Solanaceae), Latin binomial nomenclature, Carl Linnaeus.
- Unit III. Origins and domestication:** Plant centers of origin, fertile crescent, plant diversity, genebanks, crop domestication (corn, wheat, barley, ornamentals), co-evolution, paleobotany, Nicolai Vavilov.
- Unit IV. Basic Genetics & Breeding:** DNA, replication, chromosomes, ploidy, genes, mutation, plant breeding, introduction, selection, hybridization, breeding systems, Gregor Mendel.
- Unit V. GMOs:** history of use, transgenic crops, Bt, Round-up Ready, transformation methods (agrobacterium, electroporation, biolistics), tissue culture.
- Unit VI. Plant variation & Cultivars:** Ecotypes, landraces, heirloom, public and private cultivars, plant variety rights.
- Unit VII. Experimentation and Research:** control, replication, hypothesis, treatments, statistical analysis (variation, regression, correlation), Ronald Fisher, long-term research, scientific publication.
- Unit VIII. Climate and Weather Systems:** Coriolis effect, global radiation, 7 biomes (desert, grassland, tropical forest, deciduous forest, tundra, tiaga, temperate evergreen forest).
- Unit IX. The Plant Environment:** Abiotic factors, temperature, degree days, hardiness zones, water, irrigation, drought, hydrological cycle, wind.
- Unit X. Nutrients & Soil:** Nitrogen fixation, soil taxonomy, horizons, soil-less media, soil texture, soil forming factors, parent material, organic matter, C:N ratio, CEC, pH, Jethro Tull, deficiency symptoms, lime, N, P, K, S.
- Unit XI. Interactions Between Organisms:** Competition, mechanisms of competition, symbiosis, mutualism, insects, insect orders, disease, weeds, weed functional groups, weed control, IPM.
- Unit XII. Structure of Managed Ecosystems:** Sustainability, biodiversity, trophic levels, Shannon's index, soil biology.
- Unit XIII. Plants and People:** Roots and root crops, plant bioproducts, world and USA crop trends, fermentation/ethanol, biodiesel, biopolymers, recreational plants, plants and culture, 'fate of nations'.

Subject: Re: HCS 2204 and 2205
Date: Tuesday, January 18, 2022 at 10:06:02 AM Eastern Standard Time
From: Brooks, Jeremy S.
To: Gardner, David, Sharp, Jeff
CC: Luikart, Meredith

That sounds great. Thank you both!

Best

Jeremy

From: "Gardner, David" <gardner.254@osu.edu>
Date: Tuesday, January 18, 2022 at 10:00 AM
To: "Brooks, Jeremy S." <brooks.719@osu.edu>, "Sharp, Jeff" <sharp.123@osu.edu>
Cc: "Luikart, Meredith" <luikart.6@osu.edu>
Subject: RE: HCS 2204 and 2205

Jeremy,

I thank you for your work on this. As far as the concurrence form, what I've been told is that the formality is necessary when asking a unit outside FAES but within FAES an email is just fine – and I see Meredith just emailed you the same message.

Again, thank you again for your assistance.

Best Regards,

David Gardner
Prof. Turfgrass Science
240B Howlett Hall, 2001 Fyffe Ct.
Columbus, OH 43210
614-292-9002

From: Brooks, Jeremy S. <brooks.719@osu.edu>
Sent: Tuesday, January 18, 2022 9:58 AM
To: Gardner, David <gardner.254@osu.edu>; Sharp, Jeff <sharp.123@osu.edu>
Cc: Luikart, Meredith <luikart.6@osu.edu>
Subject: Re: HCS 2204 and 2205

Hi David and Meredith,

SENR has reviewed the syllabi for HCS 2204 and 2205 and are fully supportive of those courses. If you would like me to sign a concurrence form, can you please send one with the information filled in? I've attached the one that other units have used. If this email will suffice, that's OK as well. There doesn't seem to be a standard approach to obtaining concurrence within the College.

Best
Jeremy

From: Gardner, David <gardner.254@osu.edu>
Date: Friday, January 14, 2022 at 11:19 AM
To: Brooks, Jeremy S. <brooks.719@osu.edu>, Sharp, Jeff <sharp.123@osu.edu>
Cc: Luikart, Meredith <luikart.6@osu.edu>
Subject: FW: HCS 2204 and 2205

Jeremy and Jeff,

We kindly seek concurrence from SENR for HCS 2204 and 2205. These courses will replace HCS 2201. HCS 2204 will be a GE Sustainability Theme course. HCS 2205 is a lab that either requires students to take HCS 2204 previous or concurrently.

If you could provide this by our deadline of January 28, 2022, it would be much appreciated.

Thank you and let me know if you have any questions.

David Gardner
Prof. Turfgrass Science
240B Howlett Hall, 2001 Fyffe Ct.
Columbus, OH 43210
614-292-9002

Subject: FW: Concurrence Request for HCS 2204/2205
Date: Friday, January 14, 2022 at 11:59:34 AM Eastern Standard Time
From: Osborne, Jeanne
To: Luikart, Meredith
CC: Barker, David
Attachments: image002.jpg, image003.png

Meredith,

Concurrence from FCOB.

Take care,

Jeanne

From: Prud'homme, Andrea <prudhomme.3@osu.edu>
Sent: Friday, January 14, 2022 11:05 AM
To: Osborne, Jeanne <osborne.2@osu.edu>
Subject: RE: Concurrence Request for HCS 2204/2205

Jeanne:

This is so far from anything we do in Fisher that there is zero concern or concurrence with anything we have.

Andrea

Andrea M. Prud'homme, PhD, CPIM-F, CSCP, CLTD, CIRM
200D Fisher Hall
Fisher College of Business
Associate Dean Undergraduate Programs & Students
Associate Professor – Clinical, Dept. of Operations & Business Analytics
614.292.3173 Office
Pronouns: she/her/hers



From: Osborne, Jeanne <osborne.2@osu.edu>
Sent: Thursday, January 13, 2022 4:03 PM
To: Prud'homme, Andrea <prudhomme.3@osu.edu>
Cc: Luikart, Meredith <luikart.6@osu.edu>; Barker, David <barker.169@osu.edu>; Gardner, David <gardner.254@osu.edu>
Subject: Concurrence Request for HCS 2204/2205

Dear Dr. Prud'homme,

Good evening!

Attached please find the syllabi and concurrence requests from the Department of Horticulture and Crop Science in CFAES for a pair of new courses, HCS 2204 – Ecology of Managed Plant Systems, and HCS 2205 – Ecology of Managed Plant Systems Laboratory (HCS 2204 is planned to fulfill a Sustainability Theme GE). Would you please forward the attached concurrence forms and syllabi to any other interested units within your college? We would appreciate feedback by Friday, January 28, 2022.

Please let me know if you have any questions or need additional information.

Take care, and best wishes for a great holiday weekend!

Jeanne



Jeanne M. Osborne | *Pronouns: She, Her, Hers*

Assistant Dean for Academic Affairs
College of Food, Agricultural, and Environmental Sciences
100E Agricultural Administration, 2120 Fyffe Rd.
Columbus, OH 43210
Tel: 614-292-1734
Fax: 614-292-1218
e-mail: Osborne.2@osu.edu

'Unexpected kindness is the most powerful, least costly, and most underrated agent of human change' (Bob Kerrey)

Check out KINDNESS AT OHIO STATE at <http://kind.osu.edu>!

Subject: FW: Concurrence Request for HCS 2204/2205
Date: Tuesday, January 25, 2022 at 9:28:00 AM Eastern Standard Time
From: Osborne, Jeanne
To: Luikart, Meredith
CC: Barker, David
Attachments: image001.png

Meredith,

Another response.

Take care,

Jeanne

From: Quinzon-Bonello, Rosario <quinzon-bonello.1@osu.edu>
Sent: Tuesday, January 25, 2022 8:17 AM
To: Osborne, Jeanne <osborne.2@osu.edu>
Subject: FW: Concurrence Request for HCS 2204/2205

Hello Jean –
Below is the response from FABE re 2204/2205.

So COE is covered.
Thanks,
Rosie

From: Winston, Ryan J. <winston.201@osu.edu>
Sent: Monday, January 24, 2022 3:03 PM
To: Quinzon-Bonello, Rosario <quinzon-bonello.1@osu.edu>; May, Andy <may.561@osu.edu>
Subject: Re: Concurrence Request for HCS 2204/2205

Rosie,

In speaking with colleagues in FABE, we do not feel there is a need for us to provide concurrence for these courses. We are happy that the courses are proposed and see an overlap with some of our research.

Thank you,

Ryan

Ryan Winston, PhD, PE
Assistant Professor
Department of Food, Agricultural, and Biological Engineering
Department of Civil, Environmental, and Geodetic Engineering
Core Faculty, Sustainability Institute
Ohio State University

winston.201@osu.edu

(614) 292-9354

Associate Editor
Journal of Sustainable Water in the Built Environment
<http://ascelibrary.org/journal/jswbay>

From: Quinzon-Bonello, Rosario <quinzon-bonello.1@osu.edu>
Sent: Friday, January 21, 2022 11:05 AM
To: May, Andy <may.561@osu.edu>; Winston, Ryan J. <winston.201@osu.edu>
Subject: FW: Concurrence Request for HCS 2204/2205

Hello Andy and Ryan –

Do you see any reason for your areas to require concurrence for this course?

Thanks!
Rosie

From: Osborne, Jeanne <osborne.2@osu.edu>
Sent: Thursday, January 13, 2022 4:05 PM
To: Quinzon-Bonello, Rosario <quinzon-bonello.1@osu.edu>
Cc: Luikart, Meredith <luikart.6@osu.edu>; Barker, David <barker.169@osu.edu>; Gardner, David <gardner.254@osu.edu>
Subject: Concurrence Request for HCS 2204/2205

Dear Rosie,

Good evening!

Attached please find the syllabi and concurrence requests from the Department of Horticulture and Crop Science in CFAES for a pair of new courses, HCS 2204 – Ecology of Managed Plant Systems, and HCS 2205 – Ecology of Managed Plant Systems Laboratory (HCS 2204 is planned to fulfill a Sustainability Theme GE). Would you please forward the attached concurrence forms and syllabi to any other interested units within your college? We would appreciate feedback by Friday, January 28, 2022.

Please let me know if you have any questions or need additional information.

Take care, and best wishes for a great holiday weekend!

Jeanne



Jeanne M. Osborne | *Pronouns: She, Her, Hers*

Assistant Dean for Academic Affairs
College of Food, Agricultural, and Environmental Sciences
100E Agricultural Administration, 2120 Fyffe Rd.
Columbus, OH 43210
Tel: 614-292-1734
Fax: 614-292-1218
e-mail: Osborne.2@osu.edu

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Check out KINDNESS AT OHIO STATE at <http://kind.osu.edu>!

Ohio State Department Course Review Concurrence Form

The purpose of this form is to provide a simple system of obtaining departmental reactions to proposed new courses, group studies, study tours, workshop requests, and course changes. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form, course request, and syllabus to each of the academic units that might have related interests in the course. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the Office of Academic Affairs.

A. Information from academic unit *initiating* the request:

Initiating Academic Unit: Horticulture and Crop Science Date: 1/13/21

Registrar's Listing:

Course Number: HCS 2204 Level: U P G Credit Hours: 3

Course Title: Ecology of Managed Plant Systems

Type of Request: New Course Group Studies Workshop Study Tour Course Change

Academic Unit with related interests asked to review the request (use a separate form for each unit while requesting concurrences from multiple units): EEOB

Date responses are needed: 1/28/22

B. Information from academic units *reviewing* the request:

- The academic unit **supports** the proposal
 The academic unit **does not support** the proposal.

Please explain:

The academic unit suggests:



Jan 26, 2022

Signature of Department Chair

Signature of Graduate Studies Chair (if applicable)

Ian Hamilton, Vice Chair of Undergraduate Studies, EEOB

Non-ASC units: Submission checklist for existing courses moving into or within the GE

All GE courses are submitted through the curriculum.osu.edu portal. They are routed from the submitting unit to college-level curricular bodies (as appropriate), to a panel of the ASC Curriculum Committee, then to OAA and the Office of the University Registrar. Access to the portal is usually limited to Directors of Undergraduate Studies or other college or departmental curricular support staff. Those colleagues should help you prepare your submission and generally will be the uploaders of documents.

All course submissions require a set of documents and entail selecting among options in the curriculum portal. An assessment plan is **NOT** required for General Education courses. The expected documentation and choice options are explained below for each kind of course submission. Theme courses seeking status as 4+ credit “Integrative Practices” courses require additional documentation. For more information (such as expectations and context) surrounding the 4+ credit hour Integrative Practices that can be used to satisfy a GE Themes requirement, please visit the Office of Academic Affairs website at: <https://oaa.osu.edu/ohio-state-ge-program>. Additional information on course submission can be found at: <https://oaa.osu.edu/ge-course-submission>.

Course Change Rationale

All **existing** courses that are seeking to be part of the new GE will be submitted to curriculum.osu.edu via a “Course Change Request” because they are seeking a change in their status, not being newly created within the OSU catalog. Brand-new, not yet on the books courses will not have this section. This section includes 4 questions:

- What change is being proposed?** This is where the desired change is articulated. For most courses, this will simply be “Move course into X part of the new GE.” Other changes that might be relevant are changes in number of credits, format, etc.
- What is the rationale for the proposed change(s)?** This is where the program explains WHY the change is appropriate. For existing courses seeking to be in the Themes, it is helpful to include 1-2 sentences explaining how the course has been revised to fit the expectations of the GE category. (e.g.: “To align with the ELOs of Lived Environments, EEOB 5410 has been modified to emphasize the historical and contemporary ways in which humans use the ocean in their economic, leisure, and social practices and to explore more completely the ways in which human activities change the marine environment.”)
- What are the programmatic implications of the proposed change(s)?** This question seeks to understand how the change impacts programs, program requirements, or other resources. For GE courses, this is likely to be N/A, or to be a change in credit number or listing unit (for co-taught courses).
- Is approval of the request contingent upon the approval of another course or curricular program request?** This is likely only for cross-listed courses or courses that have a pre/co-requisite. An example here might be a separately-listed 1-credit lab section, which would be dependent on approval of the 3-credit lecture course.

- **Is this a request to withdraw the course?** For courses seeking a change in GE status, the answer here is NO.

GE Foundations Courses

Courses seeking to be part of the GE Foundations need to provide the following documentation:

- **A course syllabus that includes:**
 - **All standard syllabus elements** required by the College of Arts and Sciences. Please see the ASC Curriculum and Assessment Services website at: <https://ascas.osu.edu/curriculum/syllabus-elements>. (However, for distance courses, please see below for access to ODEE syllabus template and DL specific instructions.)
 - **The Goals of the GE Foundation category, the ELOs, and a statement underneath them that explains how the course expects to fulfill the GE ELOs.** The GE Foundations language (including the Goals and ELOs) can be found on the Office of Academic Affairs website at: <https://oaa.osu.edu/ohio-state-ge-program>.
 - **General Education courses to be offered via distance should use the ODEE syllabus template and have additional requirements.** Please visit the ASC Curriculum and Assessment Services website and follow the “For non-ASC units submitting GE distance courses” section at: <https://ascas.osu.edu/curriculum/distance-courses>
- **Completed GE Foundation submission forms provided by the Office of Academic Affairs.** Downloadable GE Foundation submission forms can be found at: https://oaa.osu.edu/sites/default/files/uploads/general-education-review/new_ge/ge-foundations-submission.pdf
- **Within curriculum.osu.edu, please respond to questions about number of credits, campus of offering, prerequisites, and other course details.**
 - GE courses are expected to be offer-able on any campus (pending appropriate staffing), so you should check off all regional campuses. If your unit does not wish to offer the course at a specific regional campus, you must upload a brief rationale for this decision to curriculum.osu.edu. This can be part of a cover document or its own document, as appropriate
 - The number of credits for a course is determined by its meeting schedule and workload—please verify that the credits align with the Ohio Dept of Higher Ed guidance around the translation of meetings and workload to credits <https://www.ohiohighered.org/calendar-conversion/definition> and make sense in terms of the expected number (or range) of credits associated with the GE category.
 - Because GE courses should be available to students regardless of major, prerequisites are expected to be limited. Major-based prerequisites (e.g., must be a major in X program) are unacceptable.
 - If a course is offered in multiple departments, please make it clear that a student cannot receive credit for taking the course under the other listing.
 - Because a student will not get GE credit twice for the same course, the appropriate selection for most GE courses is that they cannot be repeated for credit.

- ~~Please select the duration of the course based on reasonable plans for offering it—adding additional formats or changing the duration does not require full course review and may be easier than selecting all possible choices.~~

GE Themes Courses

Courses seeking to be part of a GE Theme need to provide the following documentation:

- A course syllabus that includes:**
 - All standard syllabus elements** required by the College of Arts and Sciences. Please see the ASC Curriculum and Assessment Services website at: <https://ascas.osu.edu/curriculum/syllabus-elements>. (However, for distance courses, please see below for access to ODEE syllabus and DL specific instructions.)
 - The Goals of the GE Theme category, the ELOs, and a statement underneath them that explains how the course expects to fulfill the GE ELOs.** The GE Themes language (including the Goals and ELOs) can be found on the Office of Academic Affairs website at: <https://oaa.osu.edu/ohio-state-ge-program>.
 - ~~General Education courses to be offered via distance should use the ODEE syllabus template and have additional requirements.~~ Please visit the ASC Curriculum and Assessment Services website and follow the “For non-ASC units submitting GE distance courses” section at: <https://ascas.osu.edu/curriculum/distance-courses>
- Within curriculum.osu.edu, please respond to questions about number of credits, campus of offering, prerequisites, and other course details.**
 - GE courses are expected to be offer-able on any campus (pending appropriate staffing), so you should check off all regional campuses. If your unit does not wish to offer the course at a specific regional campus, you must upload a brief rationale for this decision to curriculum.osu.edu. This can be part of a cover document or its own document, as appropriate
 - The number of credits for a course is determined by its meeting schedule and workload—please verify that the credits align with the Ohio Dept of Higher Ed guidance around the translation of meetings and workload to credits <https://www.ohiohighered.org/calendar-conversion/definition> and make sense in terms of the expected number (or range) of credits associated with the GE category.
 - Because GE courses should be available to students regardless of major, prerequisites are expected to be limited. ~~Major-based prerequisites (e.g., must be a major in X program) are unacceptable.~~
 - Please select the duration of the course based on reasonable plans for offering it—adding additional formats or changing the duration does not require full course review and may be easier than selecting all possible choices.
 - ~~If a course is offered in multiple departments, please make it clear that a student cannot receive credit for taking the course under the other listing.~~
 - Because a student will not get GE credit twice for the same course, the appropriate selection for most Theme courses is that they cannot be repeated for credit.

(As appropriate) **For Integrative Practice courses, please read the rubric and context documents and then submit a complete GE Integrative Practices inventory appropriate to the pedagogy of the course.** Please see the following links to download the form for each category:

Education Abroad & Away

- Description & Rubric:

<https://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/ed-away-courses-description-expectations.pdf>

- Course Inventory: <https://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/ed-away-inventory.pdf>

- **Note:** For all Education Abroad & Away Courses, the College of Arts and Sciences requires a credit hour rationale be provided with the course submission as well. For more information, please visit the ASC Curriculum and Assessment Services website at: <https://ascas.osu.edu/curriculum/credit-allocation-guidelines-education-abroad-programs>

Interdisciplinary Team-Taught courses

- Description & Rubric:

<https://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/interdisciplinary-team-courses-description-expectations.pdf>

- Course Inventory: <https://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/interdisciplinary-team-taught-inventory.pdf>

Research & Creative Inquiry

- Description & Rubric:

<https://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/research-creative-inquiry-courses-description-expectations.pdf>

- Course Inventory: <https://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/research-creative-inquiry-inventory.pdf>

Service Learning

- Description & Rubric:

<https://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/service-learning-courses-descriptions-expectations.pdf>

- Course Inventory: <https://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/service-learning-inventory.pdf>

Instruction in a World Language

- Description & Rubric: <http://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/Learning-Language-other-than-English.pdf>

- Course Inventory: <http://oaa.osu.edu/sites/default/files/uploads/general-education-review/new-ge/Instruction-World-Language-Course-Inventory.pdf>

If you have questions regarding submitting courses to the new GE program, please feel free to reach out to Michael Hilty (hilty.70@osu.edu) or Rachel Steele (steele.682@osu.edu) in ASC Curriculum and Assessment Services.

GE THEME COURSES

Overview

Courses that are accepted into the General Education (GE) Themes must meet two sets of Expected Learning Outcomes (ELOs): those common for all GE Themes and one set specific to the content of the Theme. This form begins with the criteria common to all themes and has expandable sections relating to each specific theme.

A course may be accepted into more than one Theme if the ELOs for each theme are met. Courses seeing approval for multiple Themes will complete a submission document for each theme. Courses seeking approval as a 4-credit, Integrative Practices course need to complete a similar submission form for the chosen practice. It may be helpful to consult your Director of Undergraduate Studies or appropriate support staff person as you develop and submit your course.

Please enter text in the boxes to describe how your class will meet the ELOs of the Theme to which it applies. Please use language that is clear and concise and that colleagues outside of your discipline will be able to follow. You are encouraged to refer specifically to the syllabus submitted for the course, since the reviewers will also have that document. Because this document will be used in the course review and approval process, you should be as specific as possible, listing concrete activities, specific theories, names of scholars, titles of textbooks etc.

Course subject & number

General Expectations of All Themes

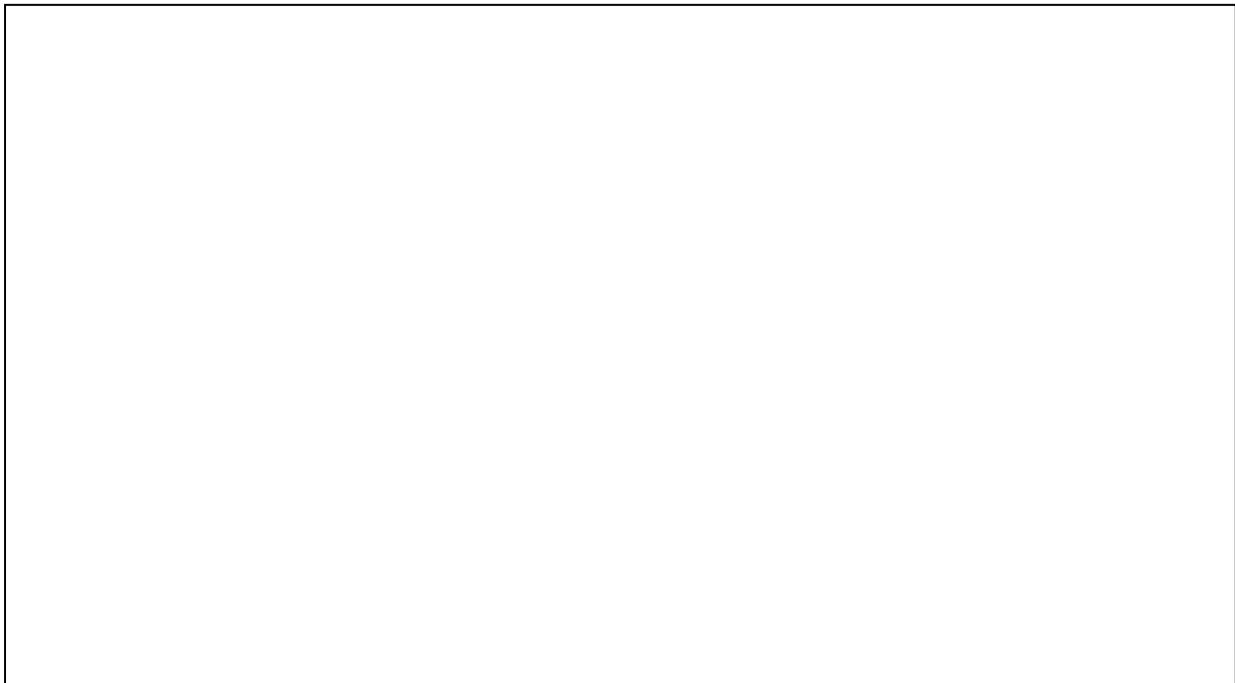
GOAL 1: Successful students will analyze an important topic or idea at a more advanced and in-depth level than the foundations.

Please briefly identify the ways in which this course represents an advanced study of the focal theme. In this context, “advanced” refers to courses that are e.g., synthetic, rely on research or cutting-edge findings, or deeply engage with the subject matter, among other possibilities. *(50-500 words)*

Course subject & number

ELO 1.1 Engage in critical and logical thinking about the topic or idea of the theme. Please link this ELO to the course goals and topics and indicate *specific* activities/assignments through which it will be met. (50-700 words)

ELO 1.2 Engage in an advanced, in-depth, scholarly exploration of the topic or idea of the theme. Please link this ELO to the course goals and topics and indicate *specific* activities/assignments through which it will be met. (50-700 words)

A large, empty rectangular box with a thin black border, intended for the student to write their response to the ELOs. The box is currently blank.

Course subject & number

GOAL 2: Successful students will integrate approaches to the theme by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.

ELO 2.1 Identify, describe, and synthesize approaches or experiences as they apply to the theme.

Please link this ELO to the course goals and topics and indicate *specific* activities/assignments through which it will be met. (50-700 words)

ELO 2.2 Demonstrate a developing sense of self as a learner through reflection, self-assessment, and creative work, building on prior experiences to respond to new and challenging contexts. Please link this ELO to the course goals and topics and indicate *specific* activities/assignments through which it will be met.

(50-700 words)

Course subject & number

Specific Expectations of Courses in Sustainability

GOAL 1: Students analyze and explain how social and natural systems function, interact, and evolve over time; how human wellbeing depends on these interactions; how actions have impacts on subsequent generations and societies globally; and how human values, behaviors, and institutions impact multi-faceted, potential solutions across time.

1.1 Describe elements of the fundamental dependence of humans on Earth and environmental systems and on the resilience of these systems. Please link this ELO to the course goals and topics and indicate *specific* activities/assignments through which it will be met. (50-700 words)

Course subject & number

1.2 Describe, analyze and critique the roles and impacts of human activity and technology on both human society and the natural world, in the past, currently, and in the future. Please link this ELO to the course goals and topics and indicate *specific* activities/assignments through which it will be met. (50-700 words)

1.3 Devise informed and meaningful responses to problems and arguments in the area of sustainability based on the interpretation of appropriate evidence and an explicit statement of values. Please link this ELO to the course goals and topics and indicate *specific* activities/assignments through which it will be met. (50-700 words)