



Summer 2022
 Dates: July 18 – August 10
 Instructor:
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Pests and Pest Management

A Joint Venture in Partnership with
 Arise Veteran Foundation and The Pawnee Nation College
 Supported by USDA’s Enhancing Agriculture Opportunities for Military Veterans
 initiative



At ARISE Veteran Foundation, Native Ways of Knowing (NWK) honors the cultural heritage of the tribes on whose traditional land we work. We ask each of us to take pride in our heritage and courage us to share what we know in a way that is experiential, participatory, and essential. We engage in a constructivist learning process that encourages authentic exchanges, instructive demonstrations, and opportunities to focus on important life applications. NWK emphasizes the values that honor both teacher and learner as part of a never-ending circle of wisdom to be shared.

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| | <p>Course Description: The Introduction to Pests and Pest Management course is designed to give students an overview of the many different types of pests and the various practices to manage pest issues found in agricultural systems and the importance of biodiversity on the farm and the invertebrates and vertebrates that can assist with pest control. There will also be discussions on the importance of biodiversity and ecosystem services on the farm and in the garden to maintain regenerative and sustainable systems.</p> |
| | <p><u>Class Schedule & Delivery</u> <u>Class Meeting Times:</u> Mon. & Wed, 6:00 pm to 8:00 pm.</p> <p><u>Class Meeting Platform:</u> <u>Zoom.</u></p> <p>Saint Louis Zoo is inviting you to a scheduled Zoom meeting.</p> <p>Topic: WAAR Grant Invert Science</p> <p>Every week on Mon, Wed, until August 10, 2022, 8 occurrence(s)</p> <p>-----</p> |

Saint Louis Zoo is inviting you to a scheduled Zoom meeting.

Topic: WAAR Grant Class

Time: Jul 18, 2022 06:00 PM Central Time (US and Canada)

Every week on Mon, Wed, until Aug 10, 2022, 8 occurrence(s)

Jul 18, 2022 06:00 PM

Jul 20, 2022 06:00 PM

Jul 25, 2022 06:00 PM

Jul 27, 2022 06:00 PM

Aug 1, 2022 06:00 PM

Aug 3, 2022 06:00 PM

Aug 8, 2022 06:00 PM

Aug 10, 2022 06:00 PM

Join Zoom Meeting

<https://stlzoo.zoom.us/j/83189207448?pwd=aXNoVXg2YnNoM28zUWlxaGsxZW15Zz09>

Meeting ID: 831 8920 7448

Passcode: 699067

Online Learning Platform:

Learning materials and assignments will be emailed to attendees or links provided

Methods of Instruction:

-The Introduction to Invertebrates and Insect Science class will meet Monday and Wednesdays at 6:00 pm on **Zoom**. Class time will consist of lecture, discussion/ reflection and resource examination and discovery.

-Outside of class **Lab projects:** Students will spend a minimum of 5 hours a week on outdoor lab projects.

Class Schedule:

| Week | Dates | Assignments |
|--------|--|---|
| Week 1 | July 18 th & 20 th 6:00-8:00 | <p><u>July 18th</u> Welcome and Introductions. -Student contact information and address locations. -Review syllabus and class schedule.</p> <p>Introduction to Pest Management -What is a Pest -What is Pest Management?</p> <hr style="border-top: 1px dashed black;"/> <p><u>July 20th</u> Pests and Pesticides - Types of Pesticides - IPM and BMPs</p> |
| Week 2 | July 25 th & 27 th 6:00-8:00 | <p><u>July 25th</u> Biodiversity and Farming - What is Biodiversity? - Why Biodiversity helps Farming?</p> <p><u>July 27th</u> Beneficial Insects for Pest Control</p> |
| Week 3 | August 1 st & 3 rd 6:00-8:00 | <p><u>August 1st</u> Agroecology and Conservation Farming</p> <p><u>August 3rd</u> Farm practices and Pest control -</p> |
| Week 4 | August 8 th & 10 th 6:00-8:00 | <p><u>August 8th</u> Planting and habitat for Pollinators and Beneficials - Planting - Reproduction and Nest Sites</p> <p><u>August 10th</u> Vertebrates Pests and Beneficials Supporting Birds and Farming Wrap up, Review</p> |

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| Continued Learning | <p>Resources:</p> <p>Books: <u>Kaufman Field Guide to Insect of North America</u> <u>Farming with Native Beneficial Insects: Ecological Pest Control Solutions</u></p> <p>Web Resources: Farming with Soil Life: A Handbook for Supporting Soil Invertebrates and Soil Health on Farms https://xerces.org/publications/guidelines/farming-with-soil-life</p> Farming for Bees: Guidelines for Providing Native Bee Habitat on Farms https://xerces.org/publications/guidelines/farming-for-bees Silent Spring by Rachel Carson https://library.uniteddiversity.coop/More_Books_and_Reports/Silent_Spring-Rachel_Carson-1962.pdf Supporting Beneficial Birds and Managing Pest Birds https://www.wildfarmalliance.org/bird_resource Nesting Structures for Beneficial Birds on the Farm Nesting Structures for Beneficial Birds on the Farm (wildfarmalliance.org) |
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