DEPARTMENT OF ENTOMOLOGY, PLANT PATHOLOGY AND NEMATOLOGY

The Department of Entomology, Plant Pathology and Nematology (EPPN) supports the Land Grant mission of the University of Idaho through our statewide programs of teaching, research and extension about insects and their relatives, plant pathogens and diseases, and nematodes. EPPN faculty include two of the fourteen University Distinguished Professors, an honorific rank reserved for those Professors whose internationally recognized excellence has brought greatest distinction to the University of Idaho.

Our undergraduate teaching program leads to a Bachelor of Science in Agricultural and Life Sciences with a Major in Entomology. We are unique among all universities in the Pacific Northwest and Intermountain West in offering a B.S. degree with a Major in Entomology. Our curriculum prepares students for immediate professional careers that preserve environmental quality and that protect food, people, animals and property. Faculty offer Directed Study, Special Topics and Seminar classes that allow for career specialization and for future advanced education at the graduate level. Students can gain research experience outside the classroom by working with EPPN faculty located on campus in Moscow and off-campus at University of Idaho Research and Extension Centers located at Aberdeen, Kimberly and Parma, Idaho. Opportunities include internships at the William F. Barr Entomological Museum, one of the most significant scholarly resources for insect species diversity in the Pacific Northwest with its collection of more than one million insect specimens. For a personal tour of the Museum, contact Dr. Luc Leblanc, Curator, lleblanc@uidaho.edu. We anticipate offering during 2019 an interdisciplinary undergraduate Major in Global Disease Ecology.

We offer graduate programs leading to a Master of Science and Doctor of Philosophy with a Major in Entomology. Entomology faculty expertise is especially strong in interdisciplinary research approaches to arthropod-borne infectious agents, biological control, climate change and agriculture, host-plant resistance, insect behavior, insect chemical ecology, integrated pest management, and parasitology. Our graduates go on to research, teaching, extension and consulting careers in academia, industry and small business. For more information, contact Professor Mark Schwarzländer, Director of EPPN Graduate Studies, markschw@uidaho.edu. Beginning with Fall 2018, we will offer graduate programs leading to a Master of Science and Doctor of Philosophy with a Major in Plant Pathology. For more information, contact Professor Brenda Schroeder, bschroeder@uidaho.edu.

EPPN multidisciplinary research programs advance the fundamental science of our disciplines while contributing to the solution of real-world problems about food systems, environmental quality and human health. Faculty research last year was funded by more than $12.3 million in new and continuing competitively awarded grants by national and state agencies. Our statewide Extension outreach programs improve the lives of Idahoans and advance the public good by extending research-based knowledge for practical implementation around the home and farm. Approximately 9,100 people learned about insects, plant pathogens and nematodes at 200 on-site workshops, field days, seminars and other outreach events delivered across Idaho by EPPN faculty last year; our printed and online Extension publications reached 10,000’s homeowners and their families as well as commercial producers of agronomic field crops, horticultural food crops and landscape plants.

Vacant, Department Head (Agricultural Science Bldg, Room 242, 875 Perimeter Drive MS 2329, Moscow, ID 83844-2329; phone 208-885-6277).

BANKS, John E; 2010; Adjunct Associate Professor of Plant, Soil and Entomological Sciences; Ph.D.; 1997; University of Washington.

*BARBOUR, James D; 1996; Research Professor in Entomology, Plant Pathology and Nematology; Superintendent of Parma Research and Extension Center; Ph.D.; 1992; North Carolina State University.

*BECHINSKI, Edward J; 1982; Extension Professor in Entomology, Plant Pathology and Nematology; Ph.D.; 1982; Iowa State University.

BONMAN, J. Michael; 2003; Adjunct Professor in Entomology, Plant Pathology and Nematology; Ph.D.; 1980; Washington State University.

*BOSQUE-PEREZ, Nilsa A; 1997; Distinguished Professor in Entomology, Plant Pathology and Nematology; Affiliate Associate Professor of Environmental Science; Ph.D.; 1985; University of California Davis.

CHUNG, Woodam; 2010; Adjunct Associate Professor of Plant, Soil and Entomological Sciences; Ph.D.; 2002; Oregon State University.

CLARK, William H; 1989; Adjunct Assistant Professor of Entomology; M.S.; 1972; University of Nevada Reno.

CLEMENT, Stephen L; 1986; Adjunct Professor of Entomology; Ph.D.; 1976; University of California Davis.

*COOK, Stephen P; 1999; Professor of Entomology, Plant Pathology and Nematology; Ph.D.; 1985; North Carolina State University.

*DANDURAND, Louise-Marie; 2014; Research Assistant Professor in Entomology, Plant Pathology and Nematology; Ph.D.; 1990; University of California Riverside.

*EIGENBRODE, Sanford D; 1995; Distinguished Professor in Entomology, Plant Pathology and Nematology; Affiliate Associate Professor of Environmental Science; Ph.D.; 1990; Cornell University.

FURNISS, Malcom M; 1982; Adjunct Professor of Entomology and of Forest, Rangeland, and Fire Sciences; M.S.; 1966; University of Idaho.

GASKIN, John F; 2008; Adjunct Assistant Professor of Plant, Soil and Entomological Sciences; Ph.D.; 2002; Washington University.

GASSMANN, Andre; 2012; Ph.D.; 1990; University of Neuchatel.

*HAFEZ, Saad L; 1984; Research Professor, Extension Specialist in Entomology, Plant Pathology and Nematology; Ph.D.; 1980; University of California Davis.

HAMPTON, Richard; 1995; Adjunct Professor of Plant Pathology; Ph.D.; 1957; Iowa State University.

HATTEN, Timothy D; 2013; Adjunct Faculty in Entomology, Plant Pathology and Nematology; Ph.D.; 2006; University of Idaho.

HINZ, Harriet L; 2003; Adjunct Assistant Professor of Plant, Soil and Entomological Sciences; Ph.D.; 1999; University of Fribourg.
KINZER, Kasia D; 2016; Research Assistant Professor and Extension Specialist in Entomology, Plant Pathology and Nematology; Ph.D.; 2015; North Dakota State University.

MARSHALL, Juliet M; 2004; Research Professor; Extension Specialist in Entomology, Plant Pathology and Nematology; Ph.D.; 1992; University of Illinois.

PARRELLA, Michael; 2016; Professor in Entomology; Dean, College of Agricultural and Life Sciences; Ph.D.; 1980; Virginia Polytechnic Institute and State University.

*RASHED, Arash; 2013; Research Assistant Professor in Entomology, Plant Pathology and Nematology; Ph.D.; 2006; Carleton University.

*SCHROEDER, Brenda; 2014; Research Associate Professor in Entomology, Plant Pathology and Nematology; Ph.D.; 1997; Washington State University.

*SCHWARZLÄNDER, Mark; 2000; Research Professor in Entomology, Plant Pathology and Nematology; Affiliate Associate Professor of Environmental Science; Ph.D.; 1999; Christian Albrechts University.

SCALES, Glen A; 200; Adjunct Associate Professor of Entomology, Plant Pathology and Nematology; Ph.D.; 1997; University of Notre Dame.

SNYDER, William; 2015; Adjunct Faculty in Entomology, Plant Pathology and Nematology; Ph.D.; 1997; University of Kentucky.

*WENNINGER, Erik J; 2009; Research Associate Professor in Entomology, Plant Pathology and Nematology; Ph.D.; 2005; University of Massachusetts.

*WHARTON, Phillip; 2008; Research Associate Professor in Entomology, Plant Pathology and Nematology; Ph.D.; 1997; University of Reading.

WOODHALL, James Warwick; 2016; Research Assistant Professor; Extension Specialist in Entomology, Plant Pathology and Nematology; Ph.D.; 2004; Harper Adams University.

**Majors**


**Minors**


**Entomology, Plant Pathology and Nematology Graduate Programs**

- Entomology (M.S.) ([https://catalog.uidaho.edu/colleges-related-units/agricultural-life-sciences/entomology-plant-pathology-nematology/entomology-ms](https://catalog.uidaho.edu/colleges-related-units/agricultural-life-sciences/entomology-plant-pathology-nematology/entomology-ms))


---

**Entomology**

ENT 204 (s) Special Topics
Credit arranged.

ENT 299 (s) Directed Study
Credit arranged.

ENT 322 General and Applied Entomology
4 credits
Identification, biology, and importance of insects and related arthropods to humans and agriculture; basic principles of arthropod pest management. Three lec and one 3-ht lab a wk.

ENT 398 (s) Internship
1-6 credits, max 6
Graded P/F.
Prereq: Ent 322 or Permission .

ENT 400 (s) Seminar
Credit arranged.

ENT 404 (s) Special Topics
Credit arranged.

ENT 438 Pesticides in the Environment
3 credits
Gen Ed: Senior Experience
Cross-listed with PLSC 438 and SOIL 438
Principles of pesticide fate in soil, water, and air; pesticide metabolism in plants, pesticide toxicology, and pesticide mode-mechanism of action; pest resistance to pesticides; biotechnology in pest control; regulations and liability; equipment application technology; pesticide transport, storage, and disposal; and social and ethical considerations.
Recommended Preparation: CHEM 275.

ENT 440 Insect Identification
4 credits
Joint-listed with ENT 540
Survey of approximately 200 major families; collecting and preservation techniques. For graduate credit, an additional 50 families and selected subfamilies and genera will be covered and a term paper is required. Two lectures and two 2-hr labs a week; two 1-day field trips. Cooperative: open to WSU degree-seeking students. (Alt/yrs)
Prereq: Ent 322 or Permission .

ENT 441 Insect Ecology
3 credits
Joint-listed with ENT 541
Population and community dynamics set in a systems framework; theory and applications in natural and altered systems. Requirements for graduate credit include a longer (10 vs. 5 pages), more synthetic term paper, and each 500-level student will lead a web-based or in-class discussion on a research paper of their choice. Two 1-day field trips. Cooperative: open to WSU degree-seeking students.
Prereq: ENT 322 or Permission .

ENT 469 Introduction to Forest Insects
2 credits
Roles and impacts of insects within forest ecosystems. Current management techniques of arthropod pests (insects and mites) in natural and managed forest systems. Interactions of arthropods with other agents of forest disturbance (fire and fungi). Identification of some common arthropod pests of Rocky Mountain forests.
Prereq: FOR 221 or REM 221 .
ENT 499 (s) Directed Study
Credit arranged.

ENT 500 Master's Research and Thesis
Credit arranged.

ENT 501 (s) Seminar
Credit arranged.

ENT 502 (s) Directed Study
Credit arranged.

ENT 504 (s) Special Topics
Credit arranged.

ENT 540 Insect Identification
4 credits
Joint-listed with ENT 440
Survey of approximately 200 major families; collecting and preservation techniques. For graduate credit, an additional 50 families and selected subfamilies and genera will be covered and a term paper is required. Two lectures and two 2-hr labs a week; two 1-day field trips. Cooperative: open to WSU degree-seeking students. (Alt/yr)

ENT 541 Advanced Insect Ecology
3 credits
Joint-listed with ENT 441
Population and community dynamics set in a systems framework; theory and applications in natural and altered systems. Requirements for graduate credit include a longer (10 vs. 5 pages), more synthetic term paper, and each 500-level student will lead a web-based or in-class discussion on a research paper of their choice. Two 1-day field trips. Recommended Preparation: General ecology. Cooperative: open to WSU degree-seeking students.
Prereq: ENT 322 or Permission.

ENT 549 Insect-Plant Interactions
3 credits
Ecology, evolution, and mechanisms of the interactions between insects and plants. Requirements for graduate credit include formal report of field study, term paper. Cooperative: open to WSU degree-seeking students.
(Alt/yr)
Prereq: ENT 322.

ENT 569 Advanced Forest Entomology
3 credits
Methods and applications of biological and economic evaluation and control strategies of forest insect populations in relation to pest management programs. Recommended preparation: ENT 469. (Fall, alt/yr)

ENT 597 (s) Practicum
Credit arranged.

ENT 598 (s) Internship
Credit arranged
Prereq: ENT 322 or Permission.

ENT 599 (s) Non-thesis Master's Research
Credit arranged
Research not directly related to a thesis or dissertation.
Prereq: Permission.

ENT 600 Doctoral Research and Dissertation
Credit arranged.