

Iowa State University Library
Collection Development Policy Statement
Entomology

I. General Purpose

The emphasis of the Entomology library collection is on both basic and applied entomology. This includes insect biology (ecology, evolution, systematics, physiology, genetics, behavior, etc.) as well as insect management and pest control.

II. History

“The Department of Entomology is a part of the College of Agriculture and Life Sciences. ISU entomologists have been involved in teaching, research, and extension for over a century. The first entomology course was taught here by Professor Herbert Osborn in 1880.”

(<http://www.ent.iastate.edu/about>)

The library’s collection of entomological literature is one of the largest in the nation, including many nineteenth- and twentieth-century research journals in English, French, German, and other languages.

III. Iowa State University Program

Information on the programs of study were found on the Department of Entomology website (<http://www.ent.iastate.edu/about>)

Undergraduate Study

Options within the Entomology B.S. degree program are insect biology and agricultural and horticultural insect management. An undergraduate minor in Entomology is also offered. The Department of Entomology participates in interdepartmental undergraduate majors in plant health and protection and integrated pest management. Our undergraduate program is one of the largest in the nation

Graduate Study

At the graduate level, students can pursue the M.S. and Ph.D. degrees with a major in Entomology or Toxicology. Graduate students may choose from the following areas of emphasis: behavior, biological control, ecology, economic entomology, forest entomology, insect genetics, insecticide toxicology, medical/veterinary entomology, molecular entomology, morphology, pathology, pest management, physiology, plant resistance, and systematic.

Interdepartmental Study

Entomology participates in the interdepartmental graduate majors in ecology and evolutionary biology, genetics, and interdepartmental major and minor in toxicology. Toxicology is a very interdisciplinary field of study at ISU, with twelve participating departments in five colleges. The department also serves as the administrative home for the interdepartmental curriculum in pest management leading to a B.S. degree. Entomology also administers the Emerging Global Diseases minor.

Other

Besides working with other academic departments on campus, researchers collaborate with: Center for Crop Utilization Research (<http://www.ccur.iastate.edu/>)

Leopold Center for Sustainable Agriculture (<http://www.leopold.iastate.edu/>)
USDA Corn Insects and Crop Genetic Research Unit (www.ars.usda.gov/mwa/ames/cicgr)
North Central Regional Plant Introduction Station (bee pollination)
(http://www.ars.usda.gov/main/site_main.htm?modecode=36-25-12-00)

IV. Subject Boundaries

Resources on insects are found within Library of Congress classification QL461- QL599.82 areas. However, other arthropods such as spiders, ticks, and mites may often be included in a broad definition of entomology.

There will be some overlap with animal ecology, agronomy, horticulture, forestry, plant pathology, zoology, and related subject areas.

V. General Collection Guidelines

A. Linguistic

Primarily English language. Materials occasionally selected in other languages if needed or requested by the department.

B. Geographical Areas

Selection is not limited by geographical area. Materials dealing with U.S. Midwest and Iowa insect crop, livestock, and human pests are especially important.

C. Types of Materials Collected

Materials selected include serials (including full-text e-journals), monographs, conference proceedings, government publications in all forms (including technical reports, CDs, etc.), traditional reference sources (e.g., handbooks, encyclopedias, and indexes), electronic databases, and Web resources significant to the program. Some textbooks are procured selectively.

D. Format of Materials Collected

The library generally selects materials supportive of the program in all the traditional forms. As mentioned above, more emphasis is now placed upon electronically networked resources (see Section V.C).

VI. Specific Collection Guidelines

Entomology: Collect to support degree programs (B.S., M.S., and Ph.D.) and departmental research needs. Areas of concentration for the M.S. and Ph.D. degrees are noted in Section III.

The toxicology materials collected for the Entomology department will emphasize insect toxicology and insecticides, to the extent these materials have not already been selected for other departments such as Agronomy or Horticulture.

VII. Detailed Subject Areas

Insect orders of interest are Orthoptera, Hemiptera, Homoptera, Isoptera, Diptera, Mallophaga, Lepidoptera, Hymenoptera, Anoplura, Coleoptera, Thysanoptera, Siphonaptera, and several others. The collecting focus is on insects of economic importance to Iowa and the U.S.: crop, livestock, and human insect pests as well as beneficial insects.

Subject areas to support teaching and research in entomology include the following:

- General entomology: Agricultural, forest, urban, aquatic, and medical/veterinary entomology
- Insect biology: Systematics, morphology, physiology, genetics, pathology, behavior, ecology, and evolution
- Insect pests: Structural, horticultural, turfgrass, forest, livestock, and public health insect pests
- Insect pest management
- Natural enemies of insects and biological control.
- Insect-plant interactions
- Insecticide/pesticide toxicology

Current areas of departmental research include insecticides, pesticide toxicology, biological control, corn pest management, forest entomology, livestock and public health pests, medical and veterinary entomology, and urban entomology.

VIII. Other Resources Available

The ISU College of Agriculture and Life Sciences, with its excellent network, has access to worldwide literature and collections through the following groups: the landgrant universities in the Midwest and throughout the nation; the National Agricultural Library, Washington DC; the Linda Hall Library on the campus of the University of Missouri–Kansas City; and agriculture-based university libraries around the world, including information available via OCLC’s WorldCat.

IX. Cross-References to Collection Policies

Ecology, Evolution & Organismal Biology
 Natural Resource Ecology & Management
 Plant Pathology
 Agronomy

X. LC Classes

QL461 – QL599.82

XI. Creation date

Policy written Decemeber 2007 by Pali Kurupu

XII. Revision History

Revisions November 2011 by Heather Lewin

XIII. Bibliographer Name

Heather Lewin

Last revised 11/20/11