



**Student Handbook
2009-2010**

**Graduate Interdisciplinary Program in
Entomology and Insect Science**

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I. Welcome to the Graduate Interdisciplinary Program in Entomology and Insect Science (GIDP-EIS). Students entering the program will choose one of two tracks: Entomology or Insect Science. Some requirements are specific to the track chosen. Other requirements are for all students in the program. Whatever track you choose, you are encouraged to bridge scientific disciplines in ways that bring fresh perspectives to questions in insect biology. The program faculty is here to assist you in developing your individualized degree program and in designing and accomplishing your research. To a large extent, your level of commitment to your program will determine your success as a graduate student and scientist. So, welcome and best of luck in your graduate training.

II. The Program.

The faculty of GIDP in Entomology and Insect Science currently includes members representing seven departments: Entomology, Ecology and Evolutionary Biology, Neurobiology, Molecular and Cellular Biology, Nutritional Sciences, Plant Sciences, and Electrical and Computer Engineering. All faculty members also belong to the Center for Insect Science, a multi-organization campus made up of insect scientists in Arizona representing a wide range of primary disciplines.

III. Administration of the Program.

The Entomology and Insect Science Program is one of 14 GIDPs at the University of Arizona. The University of Arizona's GIDPs transcend departmental boundaries by facilitating cutting edge teaching and research where traditional disciplines interface. GIDPs report to the Vice President for Research through the Director of GIDPs, currently Andrew Comrie. The GIDP in Entomology and Insect Science is administered by an Executive Committee. The Executive Committee is chaired by (TBA), and includes (TBA) and a student member (TBA). Administrative support is provided by Sharon Richards, the Graduate Coordinator, and Bob Quiroz, from Arizona Research Laboratories, who will be responsible for finances. The Executive Committee of the GIDP in Entomology and Insect Science formulates policies and procedures for the operation of the graduate program in such areas as admissions, curricula, student supervision, and completion of degree program requirements. In addition there will be two other standing committees for the program. The Admissions Committee will coordinate all recruiting and admissions procedures (less relevant to students already here, unless you become appointed to this committee). The Advisory Committee is more relevant for current students. This three-member committee orients and advises entering students who have not yet selected a major advisor. In addition, the Advisory Committee will solicit and evaluate annual progress reports from all students (see Format for Reports in Appendix).

IV. Advising and Progress.

The Advisory Committee will advise you in the preparation of your first-year program of study until the time that you select a Major Professor and Graduate Committee. If you have selected a Major Professor by the beginning of the first year, you can assemble your own Graduate Committee in consultation with this advisor. Completion of remedial course work may be required by these committees. In addition, faculty with whom you conduct rotations can serve as interim faculty advisors.

You will meet with your Major Professor regularly in the course of your program. You will also receive annual feedback on your progress report from the Advisory Committee. Feedback on

the reports serves to support students and advisors as students progress through their graduate program. When there's concern about the progress of a student, the report and letter from the Committee will be forwarded to the Chair for further discussion with the student and advisor. Copies of all letters from the Advisory Committee will be filed with the Executive Committee and in the students' files. If students fail to make progress in successive years, the Advisory Committee may recommend probation or termination. Students must take between six (minimum) and 12 (maximum) units of graduate course work in each fall and spring semester in order to remain in good standing in the Program. The customary number of units is 9. Some funding sources require that you register for up to 12 units. Students in the Graduate Program are expected to maintain a grade-point average of at least 3.00 (B) and to have no more than one grade of C. Failure to achieve such a record can result in dismissal from the program at any time.

We expect students will take their Comprehensive Exam before their third year, and will complete all requirements for the Ph.D. degree within 5 years. The Graduate College mandates that all requirements must be completed within 5 years of passing the Comprehensive Exam.

You must meet at least once a year with your Graduate Committee for a formal review of your progress.

V. EIS Program Requirements.

1. Graduate College Requirements.

Major requirements, PhD.

A minimum of 45 units of graduate coursework must be taken, excluding dissertation units [<http://grad.arizona.edu/academics/program-requirements/doctor-of-philosophy/credit-requirements-and-transfer-credit>]. These units include 36 units toward the major and nine counting toward the minor. At least half of these (23 units or more) must be taken in letter-graded courses (vs. research or independent study units). These units will include EIS courses, courses in your minor, other courses chosen from the schedule of classes and approved by your Graduate Committee, and research and independent study units. You may also include eligible transfer courses in this tally. Lastly, 18 units of Dissertation Research are required; these are taken after the Comprehensive Exam. See below for additional core course requirements for all EIS students (Section 2), and for special requirements for the two tracks (Sections 5 and 6).

Minor requirements, PhD.

To make sure that you have some expertise in an area of science outside of EIS, a minor consisting of at least nine units in another department or program is required. You should check with the minor department to determine its requirements for course work, qualifying exams, comprehensive and final oral exams. Your minor advisor will determine the specific courses you will take toward your minor.

Masters requirements.

Entomology track only. A minimum of 30 units total must be taken, including eight thesis units (EIS 910) and 15 EIS units of formal courses. At least 15 units must be completed toward the MS requirements in letter-graded courses [<http://grad.arizona.edu/academics/program->

requirements/masters-degrees/credit-requirements]. See below for additional core course requirements for all EIS students (Section 2), and for Entomology track students (Section 5).A

A Masters in the Insect Science track is awarded only in rare instances in which a student is unable, for whatever reason, to complete a Ph.D. To qualify for the master's degree, the student must successfully pass the written and oral comprehensive exams, or their equivalent, and fulfill all the requirements of the Graduate College for that degree.

All students.

EIS students must abide by all the relevant ethical and academic standards of the University (e.g., Academic Integrity: <http://catalog.arizona.edu/policies/974/acacode.htm>, responsible conduct of research: <http://www.vpr.arizona.edu/compliance>) as well as the policies of the Graduate College (<http://grad.arizona.edu/academics/policies/academic-policies>).

2. Entomology and Insect Science (EIS) courses.

All EIS students will start their program with some required courses taken in the first or second year. After that time, you will select your courses in consultation with your Major Professor and Graduate Committee. While you will need to meet the Graduate College requirements and the requirements of the track that you have chosen, you will find that you have a great deal of flexibility to choose the courses most relevant to your interests and research direction.

Two courses are required for all EIS students.

- **Insects as Model Systems.** This course is currently under development and will be offered during alternate years. Depending on when students enter the program, they will take it in either their first or second year.
- **EIS Colloquium.** This is a seminar course that will include attendance and discussion of presentations by local or outside speakers, and may also include skills workshops, student presentations, and panel discussions. The Colloquium will be required for all students in their first and second year (four semesters total). It will be offered fall 2009, and in the first semester will be led by Patricia Stock.

3. Rotations.

Each student must take one or more research rotations (two or more for the IS track, see below), which count towards the 36 units of EIS courses, in the first year in the Program. The required course, **Methods in Entomology and Insect Science (EIS 700)**, provides a formal mechanism for these rotations, which encourage you to have hands-on experience in areas of interest, to learn research methods in the field and to become acquainted with the laboratory work and research group of prospective dissertation advisors. Ordinarily, rotations are three units, approximately 8-16 weeks in duration, with about 10 hours per week in the lab.

Design the project with the help of either your advisor (if you have one) or your rotation mentor. BEFORE the project begins, submit a brief outline of the planned work to Sharon Richards. AFTER the rotation is complete, complete a brief summary of the work and training accomplished. In addition, both you and your rotation mentor should complete separate evaluations of the experience. Submit these to Sharon Richards. You can use the forms at the end of the handbook or type your own with the indicated information. All of the reports will be forwarded to the Advisory Committee.

4. Seminars and Group Meetings.

You are expected to participate actively in one or more of the group meetings, discussion groups, seminars, and colloquia held by the Program or by the Center for Insect Science. Attendance and performance in these activities will be evaluated by the Major Professor and Graduate Committee at each yearly progress meeting.

5. Additional Course Requirements for Entomology Track.

PhD. In addition to Insects as Model Systems and Colloquium units, Entomology track PhD students will take at least two of the following core courses: EIS 515 Insect Biology, EIS 511 Insect Behavior, Ento 517 Insect Systematics, EIS 520 Insect Molecular Biology, and EIS 544 Insect Ecology.

Masters. In addition to the EIS program requirements, Entomology track Masters students will take at least one of the following core courses: EIS 515 Insect Biology, EIS 511 Insect Behavior, Ento 517 Insect Systematics, EIS 520 Insect Molecular Biology, and EIS 544 Insect Ecology. Students may be excused from one or more of these course requirements if their Graduate Committee is convinced that they have fulfilled them at another institution.

6. Additional Course Requirements for Insect Science Track.

Insect Science Track students will do their rotations in their first year. Two rotations are required, and not more than four are permitted.

7. Other program requirements.

1. Teaching Requirement. University level teaching is considered essential training for an academic career. Therefore, PhD students must serve as a Teaching Assistant, or have an equivalent type of teaching experience for at least one semester sometime during their graduate program. There is no teaching requirement for Masters students.

2. Speaking Requirement. PhD students who have completed their comprehensive exams must present two talks on their research progress, at least one of which should be on campus. The talks may be 30-minute presentations in the Colloquium, or in another departmental seminar series on campus, or oral presentations given at a relevant national or international conference. Masters students should plan to give either a single Colloquium talk, or present orally at a conference.

VI. Selection of Major Professor and Graduate Committee.

Students should select a Major Professor and Graduate Committee in the first year before the start of the third semester of study. This selection will be influenced by discussion with the Major Professor, research rotations, and individual meetings with the Program faculty. If you are considering inviting a particular faculty member for your Committee, you should establish a time to meet, and then plan to discuss your research plans, and ask whether they would be willing to serve on your Graduate Committee. Note: Graduate Committees may change over the course of a student's program. Changes may occur because of a change of the student's research focus, the departure of a faculty member to another institution, or, rarely, because of a conflict with a committee member.

The students Graduate Committee at the time of their comprehensive exam must consist of at least four members, three of whom must be University of Arizona tenured, tenure-track, or approved by the graduate college as tenure equivalent, and one or more of whom may be a special member(s) (i.e. not UA tenured, tenure-track or tenure-equivalent faculty). At least two committee members should be Faculty in the EIS Program (one of whom is the major advisor, or co-advisor), one faculty member should be from the student's minor field, and an additional faculty member may be chosen from either the major or minor area, may be a special member, or from another appropriate field. For special members, Graduate College approval is required. Contact Mike Renning (621-9227; mrenning@grad.arizona.edu) in the Graduate Degree Certification Office to determine whether the person you have in mind is on the approved UA list of special members. If not, Sharon can make the request to the Graduate College with a copy of the prospective member's CV.

A Masters Committee consists of a minimum of three members, one of whom is the major advisor. At least two of these must be University of Arizona tenured, tenure-track, or approved by the graduate college as tenure equivalent, and one may be a special member. Further information on special members is in the preceding paragraph.

The Major Professor and Graduate Committee: (1) advise you on preparation of a program of study, (2) supervise your research (3) conduct the comprehensive examination, and (4) accept the dissertation and conduct the final examination and dissertation defense. In addition to the yearly-required meetings, it is highly advisable to schedule a committee meeting when the dissertation has taken shape and the end is in sight (e.g., the semester before you defend). Present the research that will be in the final dissertation to your committee at least two weeks prior to appropriate deadlines, and make sure that all members approves of the scope, rigor, and organization of the final product.

VII. Examinations.

1. Qualifying Exam.

The Graduate College suggests that programs administer a qualifying exam to determine if a student is prepared to continue work towards the dissertation. You will have passed the exam when you have: (1) completed course work in the first two semesters with a minimum of 3.00 grade-point average, (2) completed the research rotations, and (3) obtained approval for your Plan of Study. The Plan of Study should be filed with the Graduate College no later than the student's third semester in residence. The Plan of Study identifies: (1) courses the student intends to transfer from other institutions (if any), (2) courses already completed at The University of Arizona which the student intends to apply toward the graduate degree; and (3) additional course work to be completed in order to fulfill degree requirements. The Plan of Study must have the approval of the student's Major Professor and Graduate Committee before it is submitted to the Graduate College. The Graduate College requires approval signatures on the Doctoral Plan of Study from the Chair of the EIS and advisor. The Plan of Study can be accessed on the Graduate College website with log-in through My Grad Coll [<https://grad.arizona.edu/gc/>], and information to assist students with the Doctoral Plan of Study is available at <http://grad.arizona.edu/academics/degree-certification/dpos>.

2. Comprehensive (formerly Preliminary) Examination.

The comprehensive examination is designed to ensure that PhD students are broadly trained, can synthesize new knowledge, and think independently. Preparation for the comprehensive

examination provides a rare opportunity to intensively read, think and write about one's discipline. The comprehensive examination must be taken according to the Graduate College regulations [<http://grad.arizona.edu/academics/program-requirements/doctor-of-philosophy/comprehensive-examination>]. Under normal circumstances, the comprehensive examination should be taken in your fourth semester in the Program, the fifth semester at the latest. The examination, which has written and oral parts, tests knowledge in both the major and minor area of concentration. The written exam consists of two parts. The first part is a dissertation proposal, which should outline independent research, and is generally written according to the guidelines of a relevant funding agency (e.g. NIH, USDA, NSF). The dissertation proposal can be developed in consultation with your Committee. In the second part, you will write an essay on a topic chosen by the Committee. This second assignment will give you an opportunity to develop a synthetic, critical essay in an area allied but separate from your dissertation problem, and will be written without any consultation with other students or faculty. The second essay will be turned in a week after being presented. A student's Graduate Committee can modify the format of the Written examination if an alternative format is deemed to be in the student's best interest.

The oral exam is given by your Graduate Committee. You should download the form "Results of the Oral Comprehensive Examination for Doctoral Candidacy" from the Graduate College website [<https://grad.arizona.edu/gc/>] ahead of time, and meet with your advisor to discuss the format and scheduling of the exam. You will fill out a portion of the form and have the written comprehensive results certified by the EIS Chair before you bring it to the oral exam. The oral examination involves broad questions across your general field of study as well as more specific questions within your area of specialization. You should demonstrate strong fundamental knowledge in insect biology as well as in biology or another discipline represented by your minor. It may be advisable to speak to each member of your committee several weeks before your oral exam to ask them whether there is a particular body of work that they recommend you study (e.g., texts, certain papers, certain topics). When the committee feels that the student is insufficiently prepared for the oral exam, they may postpone the exam, to allow more time for preparation. If the student is unprepared in the exam, the Committee will fail the student. The Graduate College allows only one re-take of the oral exam.

Advancement to Candidacy.

When the student has an approved doctoral Plan of Study on file, has satisfied all course work, residence requirements, and passed the written and oral portions of the Comprehensive Examination, the student has "advanced to candidacy" and is eligible to apply for certain fellowships that are exclusively for students at this advanced stage of their program (e.g., the CIS Student Research Grants, and the NSF Doctoral Dissertation Improvement Grant). The Graduate College will notify you by e-mail when you have advanced to doctoral candidacy. Students at this point must also file a Committee Appointment form with the Graduate College. This application must be submitted to the Graduate Degree Certification Office as soon as requirements are met but no later than six months before the Final Oral Defense Examination is scheduled. Deadlines for the submission of paperwork pertaining to doctoral programs are available online at Deadlines for Completion of Degree Requirements. The "Committee Appointment Form" is available online with log-in through My Grad Coll [<https://grad.arizona.edu/gc/>]. It requires approval signatures from your major professor, the EIS Chair and the director of graduate studies or department head for the minor.

3. Dissertation and Final Examination

In the months before your defense, you and your Graduate Committee will agree upon a schedule for completion of chapters, and submission of the dissertation to the Committee members. You are expected to provide the members of your Committee with the final, polished version of the dissertation at least 2 weeks prior to the scheduled Final. The Final Examination (the defense) consists of a scheduled, advertised public seminar by the candidate followed by an oral examination by your Graduate Committee that cannot exceed 2 hours. While the oral portion of the Comprehensive Examination is often broad ranging, the Final oral examination is generally focused on the dissertation. The Graduate College requires a minimum of three members to approve the dissertation all of whom must be University of Arizona tenured, tenure-track, or equivalent. The fourth and fifth members, if any, may be UA faculty or approved special members. If a committee has only three members, all must approve the dissertation. [<http://grad.arizona.edu/academics/program-requirements/doctor-of-philosophy/dissertation-committee>.]

VIII. Financial Information

Students are generally supported by Program funds in their first year while they take courses and do laboratory rotations.

Students in their second and subsequent years are funded by research assistantships from their advisors, teaching assistantships, training grant funds, or individual fellowships. All students are strongly encouraged to apply for individual fellowships as they are excellent training in summarizing research. If granted, fellowships and grants are prestigious and increase the probability of further funding and of securing positions after graduation. Fellowships also increase student independence. Students who are not legal residents of Arizona, but are on an RA or TA receive a waiver of the out-of-state tuition fees charged by the University of Arizona.

Students who are self-funding, have less than a 'full time' (0.5) RA or TA, or who are on certain types of fellowships, may be responsible for some portion or all of these fees. However, before you pay these, check with Sharon or Bob to see whether we have GRS/GTS funds to distribute that can reduce or eliminate your financial liability. These are generally distributed once a year, so you may have to anticipate more than a semester in advance. Enrollment in the University's student health plan for the student, only, is covered by these fees.

IX. Overview of the EIS PhD Program and Suggested Timeline.

First Year

First Semester

Upon arriving in Tucson Initial meeting with Advisory Committee.
Visit with EIS faculty to select and plan rotations.
Complete first laboratory rotation(s); turn in rotation(s) report.

First Year

Second Semester

Complete final rotation(s), if applicable; turn in final rotation(s) report.
Select Major Professor.
Develop Plan of Study with Major Professor.
Choose Graduate Committee.
Annual Graduate Committee meeting for review of progress.

Second Year

First Semester

Meet with graduate committee, finalize Plan of Study, submit finalized Plan of Study to the Graduate Degree Certification Office.

Second Semester

Schedule and take Written and Oral Comprehensive Exam when all coursework has been completed.

Annual Graduate Committee meeting for review of progress.

Third Year

First Semester

MUST have completed and passed both written and oral exams—by end of semester.

Submit Doctoral Committee Appointment form to Graduate Degree Certification Office after completion of Comprehensive Exam and no later than six months before the Final Oral Defense Examination is scheduled.

Second Semester

Annual Graduate Committee meeting for review of progress.

Fourth Year

First Semester

Focus on dissertation research.

Second Semester

Annual Graduate Committee meeting for review of progress.

Fifth Year

First Semester

Prepare for dissertation defense and meet with the Graduate Committee.

Second Semester

Dissertation Defense.

To complete sometime during program: Teaching assistantship or equivalent, and two talks.

X. Overview of the EIS, Entomology track, Masters Program

First Year

First Semester

Upon arriving in Tucson Initial meeting with Advisory Committee
Select Major Professor.

First Year

Second Semester

Develop Plan of Study with Major Professor.

Choose Graduate Committee.

Graduate Committee meeting—discuss thesis project, courses, get approval for and submit Master’s Plan of Study to Graduate College.

Second Year

First Semester

Finish coursework, continue with thesis research.

Second Semester

Graduate Committee Meeting to discuss thesis results and presentation.

Schedule and complete Final Exam (thesis presentation and defense).

Submit “Completion of Degree requirements” to the Graduate College.

To complete sometime during program: Speaking requirement (one talk).

Note: it is not unusual for Master’s study to extend beyond two years. However, we do expect a Masters program to be completed within three years.

XI. Exit Interview

Upon completion of the dissertation defense, students should schedule a meeting with the Program Chair. The purpose of this meeting is congratulatory as well as information-seeking. The department is committed to the quality of its graduate program, and the advice and experiences of successful students are valued.

XII. Rotation forms (on subsequent pages)

INSC 700 - Research Rotation
Outline of Rotation Project

Before starting a rotation, the student and mentor must submit to Sharon Richards, a brief outline of the work to be performed and the anticipated time course of the rotation. This prospectus must be signed by both parties.

Student _____ Date _____

Mentor _____ Date _____

INSC 700 - Research Rotation
FINAL REPORT

Upon completion of the rotation, the student and mentor should submit and sign a one paragraph summary of the work and training accomplished.

In addition, the student and mentor each must submit, on separate forms, a confidential evaluation of the rotation.

Student _____ Date _____

Mentor _____ Date _____

INSC 700 - Research Rotation
FINAL REPORT
Confidential Evaluation by Student

Student _____ Date _____

INSC 700 - Research Rotation
FINAL REPORT
Confidential Evaluation by Mentor

Mentor _____ Date _____

XIII. Progress Report Format

Part A is no longer than 2 pages, and includes:

- 1) Your name
- 2) Your program (MS or PhD)
- 3) Your track (Entomology or Insect Science)
- 4) When you arrived
- 5) When you expect to finish
- 6) The name of your major advisor
- 7) The names of the members of your graduate committee (if you have one)
- 8) The date of your last graduate committee meeting.
Note that annual graduate committee meetings are required, so if you have not yet formed a committee, you should be planning to form one soon, and if you have not met in the past year, you should indicate when your next meeting is scheduled.
- 9) If in a PhD program, note whether you have passed your comprehensive examinations
- 10) Your current grade point average.
- 11) A paragraph summary of your thesis/dissertation research project (even if preliminary).
- 12) Goals of the past calendar year (from last years report), and a discussion of how those goals were met, or not met, and if the latter, why not. If you are a first year student, you may have to think back on what your goals were, exactly.
- 13) Goals for the next twelve months. These should be two to five concrete statements, and should include research objectives as well as other aspects of progress in your program. (Some hypothetical goals for different students could be: *Form a committee and have a committee meeting, Finish collection of field data, Submit first manuscript, Finish coursework requirements, or Submit draft of masters thesis to committee*). Try to make them realistic, because *these* goals will be measured against your progress at the end of next year.
- 14) (optional) Other things that you think pertinent. These could include difficulties you have encountered, or an experience from the previous year that has enriched your graduate program experience.

Part B is a current CV (two pages maximum) that should include contact information, education, experience (academic work/research/teaching), awards and honors, service/activities, presentations, and publications. There is no proscribed format - you can use the format you prefer. **However, please highlight (with the Microsoft Word highlight function, with an asterisk or in bold) the accomplishments of the past year (e.g. awards, presentations, Fellowships, TAs, or publications of the past year).**

We suggest you run a draft of your report by your advisor for input. The deadline for the Progress Reports is generally in May or June after classes are over. You will be notified by email of the deadline by the GSAPC Chair. **Please send the report as one electronic document (pdf preferred) to the Chair of the Advisory Committee.**

XIV. Fall 2009 Entomology Courses and Insect Science Courses–ENTO and EIS Courses.

ENTO300 - IMP/DESERT CROPPING SYST (3)
ENTO310 - LIVING IN SYMBIOSIS (3)
EIS403L - PARASITOLOGY LABORATORY (1)
EIS403R - BIOLOGY ANIMAL PARASITES (3)
EIS415L - INSECT BIOLOGY LAB (1)
EIS415R - INSECT BIOLOGY (3)
EIS467 - POLLINATION ECOLOGY (2)
EIS499 - INDEPENDENT STUDY (1-5)
EIS499H - HONORS INDEPENDENT STUDY (3)
EIS503L - PARASITOLOGY LABORATORY (1)
EIS503R - BIOLOGY ANIMAL PARASITES (3)
EIS507 - INSECT PHYSIOLOGY (3)
EIS512A - BIOL ELECTRON MICROSCOPY (5)
EIS515L - INSECT BIOLOGY LAB (1)
EIS515R - INSECT BIOLOGY (3)
EIS517 - INSECT SYSTEMATICS (4)
EIS544 - INSECT ECOLOGY (3)
EIS567 - POLLINATION ECOLOGY (2)
EIS 568 - NUCLEIC ACIDS (4)
EIS588 - PRIN CELL + MOLEC NEUROBIO (4)
EIS596A - ENTOMOLOGY (1)
EIS599 - INDEPENDENT STUDY (1-4)
EIS693 - INTERNSHIP (1-3)
EIS694 - PRACTICUM (1-6)
EIS699 - INDEPENDENT STUDY (1-3)
EIS700 - METH IN INSECT SCIENCE (3)
EIS900 -RESEARCH (1-8)
EIS909 -MASTER'S REPORT (1-3)
EIS910- THESIS (1-8)EIS920 – DISSERTATION (1-8)
EIS930 -SUPPLEMENTARY REG (1-9)

XV. Current Program Faculty

Paul Baker, Extension Specialist, Department of Entomology
Judith Becerra, Associate Research Professor, Biosphere 2
Judith Bronstein, Professor, Department of Ecology & Evolutionary Biology
Judith Brown, Professor, Department of Plant Sciences
David Byrne, Professor, Department of Entomology
Yves Carriere, Professor, Department of Entomology
Goggy Davidowitz, Assistant Professor, Department of Entomology
Anna Dornhaus, Assistant Professor, Department of Ecology & Evolutionary Biology
Peter Ellsworth, Extension Specialist, Department of Entomology
Dawn Gouge, Associate Specialist and Associate Professor, Department of Entomology
Wulfila Gronenberg, Associate Professor, Department of Neuroscience
Charles Higgins, Associate Professor, Department of Electrical & Computer Engineering
John Hildebrand, Professor, Department of Neuroscience
Martha Hunter, Professor, Department of Entomology
Richard Levine, Professor, Department of Neuroscience
Xianchun Li, Assistant Professor, Department of Entomology
Nancy Moran, Professor, Department of Ecology & Evolutionary Biology

Lisa Nagy, Professor, Department of Molecular & Cellular Biology
Alan Nighorn, Associate Professor, Department of Neuroscience
John Palumbo, Extension Specialist, Department of Entomology
Dan Papaj, Professor, Department of Ecology & Evolutionary Biology
Michael Riehle, Assistant Professor, Department of Entomology
Linda Restifo, Professor, Department of Neuroscience
Robert Smith, Associate Professor, Department of Entomology
S. Patricia Stock, Associate Professor, Department of Entomology
Nicholas Strausfeld, Professor, Department of Neuroscience
Bruce Tabashnik, Professor, Department of Entomology
Bruce Walsh, Professor, Department of Ecology & Evolutionary Biology
Diana Wheeler, Professor, Department of Entomology
Joy Winzerling, Professor, Nutritional Sciences
Konrad Zinsmaier, Professor, Department of Neuroscience

XVI. Contacts

TBA, Chair, GIDP-EIS

Sharon Richards, Program Coordinator, Sr., 227A Life Sciences South, 621-9310, insects@arl.arizona.edu

Bob Quiroz, ARL Business Office, 1005 Gould-Simpson. 621-4065, quirozr@email.arizona.edu

Michael Renning, Graduate College Degree Certification, 621-9227, mrenning@grad.arizona.edu

Helpful Grad College links:

<http://grad.arizona.edu/new-and-current-students>

<http://grad.arizona.edu/new-and-current-students><

<http://grad.arizona.edu/financial-resources>>

<http://grad.arizona.edu/financial-resources>

<http://grad.arizona.edu/academics/program-requirements/doctor-of-philosophy><

<http://grad.arizona.edu/ta>><http://grad.arizona.edu/ta>

<http://grad.arizona.edu/academics/degree-certification/steps>