

Expectations of MS and PhD Students in the Pawlik Lab

Dr. Pawlik usually accepts no more than four grad students in his laboratory at one time, and offers advantages that are generally not provided to other graduate students:

- 1) Research Assistantships. Because Dr. Pawlik receives funding for his research program from external sources, he provides RA stipends to his students during the summer and for >50% of the academic semesters it takes to complete their degree. Students work primarily on their own research projects while funded by RA stipends. Students are expected to take a teaching assistantship (TA) during one semester to gain teaching experience. When not otherwise on an RA they are supported on a TA.
- 2) Travel. Dr. Pawlik's research program involves field work on Caribbean coral reefs. Most students are provided opportunities to conduct research at the NURP facility in Key Largo, Florida, or in the Bahamas on NSF sponsored research cruises. These opportunities are funded by Dr. Pawlik's research grants, and cover the costs of travel, lodging and meals.
- 3) Scientific meetings. Dr. Pawlik encourages his students to present the results of their research projects at national meetings, in particular, the annual spring Benthic Ecology Meeting. Travel costs associated with scientific meetings are covered by Dr. Pawlik if funds are not available from the Graduate School.
- 4) Contacts. Dr. Pawlik has many contacts among researchers in the marine sciences. Students who complete their degree in an exemplary manner can expect Dr. Pawlik's assistance in furthering their careers (e.g., letters of reference, job contacts, etc.).
- 5) A cohesive research program. The Pawlik lab group usually includes undergraduate research assistants and postdocs who are available to MS students for assistance with their research projects. Laboratory supplies, equipment, and facilities for conducting research are available, or will be provided if costs are reasonable.
- 6) Publications. At Dr. Pawlik's discretion, students may be listed as co-authors on publications arising from projects funded by Dr. Pawlik's grants that require a group effort. These projects are usually distinct from student thesis projects, and authorship is based on the level of intellectual contribution.

What is expected of Dr. Pawlik's MS students?

Graduate students are expected to work independently and responsibly toward completing their degree within the normative period of time (2 years for a MS, 4 additional years for a PhD). Because their thesis research is the most important, and most difficult, component of their degree, MS students should begin work on their research project as soon as possible, preferably during the summer before they enroll in the graduate program, and no later than their second semester. A student's thesis research project must fall under the broad topic areas of marine chemical ecology, invertebrate larval biology or coral reef ecology; students are strongly encouraged to develop their own projects, but considering the time constraints involved, it is common for a project to be chosen from several suggested by Dr. Pawlik, usually during the second semester. Other expectations are as follows:

- 1) Degree requirements. It is the student's responsibility to fulfill all the requirements for their degree, including all the paperwork described in the Graduate Handbook. The Prospectus should be formulated by the end of the first semester and signed by the end of the second

- semester. *Course work should be kept to a minimum*, with maximum use of Thesis and DIS credits to reach the credit hour requirement.
- 2) Work ethic. The transition from course work to independent research is a difficult one, and requires independence, inventiveness, and discipline. Research Assistants are paid for 20 hours of work each week, but are expected to put in 40 or more hours per week working on their own projects. Students who do not perform to expectations on an RA can expect to be given a TA assignment. **Students shall not engage in additional part-time employment:** being a graduate student is a full-time job.
 - 3) Analysis and presentation of research data. Graduate students are expected to work-up and write-up their data as collected, and to present their results at weekly group meetings for discussion by the group. These meetings are invaluable for problem-solving and for generating new ideas. Graduate students are also expected to present their work at the annual spring Benthic Ecology meetings.
 - 4) Obtaining institutional or external funding. It is expected that students will apply for funding from institutional sources to support travel to meetings, to augment their summer salary, or from fellowships or scholarships. These awards are important additions to a student's resume. Some award opportunities include: Grad Student Achievement Awards, Grad School Travel Funds (up to \$400 for travel to a meeting to give a talk), Lerner Gray Fund for Marine Research (up to \$2000 from the American Museum of Natural History for projects in marine zoology; 2 page proposal due 15 March).
 - 5) Completing the thesis, and **submission of manuscripts for publication.** Funding for Dr. Pawlik's research program is dependent on high-quality publications in international journals. Generally, 1-2 publications are generated from a MS dissertation, and 2-3 more from a PhD dissertation. Students should begin writing manuscripts for publication as soon as possible, and not wait until the end of their graduate term to write up the whole thesis. This is particularly important to build the resume of a MS student who intends to apply to PhD programs elsewhere, or a PhD student who wants to apply for postdoctoral fellowships or employment opportunities. If the process of publication is not completed before graduation, it is expected that a student will continue to assist in the process, even after the degree is completed and the student has moved on.