

Klassen Lab Mentoring Expectations for Graduate Students

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Welcome to the Klassen lab! You are joining a group of researchers committed to advancing science and their scientific careers by contributing to a common research program studying the diversity, ecology, and evolution of microbes and their molecules. As the principal investigator, it is my job to define the broad themes of our lab's research, write grant proposals to fund our work, promote our science to both the scientific and broader public communities, and help you to grow and succeed as a scientific professional. As a graduate student, you also have certain responsibilities to ensure both your and our lab's success, and there are reciprocal responsibilities that I have towards you. The purpose of this document is to list these responsibilities, agreed to by both you as a mentee and by me as a mentor, such that they govern the conduct of our relationship during your program. We will discuss these expectations at the start of your degree program and refer back to them later.

Responsibilities of the graduate student mentee:***Your Degree:***

- *The completion and success of your degree is primarily your own responsibility.* This includes both your classroom and laboratory work, which must always be conducted with professionalism, self-motivation, engagement, scientific curiosity, and high ethical standards.
- *Be knowledgeable of the policies, deadlines, and requirements of the graduate program, the graduate school, and the university.* Comply with all institutional policies, including academic program milestones, laboratory practices, the MCB departmental norms, and rules related to chemical safety, biosafety, and fieldwork.
- *As applicable, be knowledgeable of the policies and requirements of your TA or RAship.* Most graduate students in the lab will be employed as either a TA or RA during the entire course of their degree. Be cognizant of all expectations relating to your employment, e.g., work responsibilities, FOIA and FERPA expectations, mandatory reporter status, etc.
- *Work with me to develop a thesis project for your degree.* Completing your degree requires that you produce a coherent body of research that contributes to your scientific field. Ensure that your research is ultimately proceeding towards this goal.
- *Be responsive to advice and constructive criticism.* The feedback you get from me, your colleagues, your committee members, and your course instructors is intended to further your research and professional development. Respect the wisdom of those who have gone before you.
- *Take care of your mental and physical health.* Your health is always a priority. Establish healthy eating, sleeping, and exercise patterns that will sustain you throughout your program and beyond. Pay attention to your mental health and take corrective actions as needed. Never, ever, put your colleagues at risk due to your lack of self-care; this is grounds for dismissal.

Your Career Development:

- *Conduct research at the world-class standards of this institution.* I expect that you will learn how to plan, design, and conduct high-quality scientific research.
- *Routinely read the scientific literature.* Your research does not happen in a vacuum; reading papers provides knowledge of your field and prevents you from wasting time on questions that have already been answered. A broad reading of the literature allows you to identify theory and applications relevant to your research (and to prepare for your general exam). It also keeps you abreast of news and trends in the scientific community (e.g., as published in the journals *Nature* and *Science*). I ultimately expect you to have more expertise in your specific study topic than I do by the completion of your degree, and to read significantly before starting experiments and (especially) writing. I expect you to spend significant time reading weekly (if not daily).
- *Actively participate in department seminars.* Departmental seminars are another way to remain current with others' research, which often has unexpected connections to your own. As a rule of thumb, I expect

you to attend two seminars per week when these are available (typically RIPS and the MCB research seminar; discuss recurring scheduling conflicts with me as needed). I also expect you to take advantage of opportunities to interact with relevant visiting speakers; developing your scientific network is a part of your scientific development and often the means to the next step in your career. Remember that interesting seminars happen across the entire campus.

- *Present your data to the scientific community early and often.* You will begin presenting your work in department seminars and external meetings as soon as you begin generating data (i.e., in your second year) and at least biennially thereafter. You will engage fully in the scientific program of the conferences that you attend; these should not be viewed as vacations.
- *Publish your research.* You will publish your work in peer-reviewed journals. I expect most of your research to be published or posted as preprints BEFORE your graduation; early publication enhances your success in obtaining scholarships and in finding your next job. The 'currency' of science is published papers, and because our lab is supported by taxpayer dollars, we have an obligation to complete and disseminate our findings. In some cases (particularly for MS students) others will complete your project. Your work will still be written to submission quality in this case, especially so that others have everything they need to complete your work.
- *Mentor and train other students and help them with their projects.* I expect that senior students will mentor junior ones, and that people with unique and specialized skills will share them with the rest of the lab as teachers and/or collaborators. Mentoring junior students (e.g., undergraduate researchers) is a particularly valuable skill that is important for your career development.
- *Actively cultivate your professional development in non-research contexts.* Becoming a successful scientist requires more than just academic research. You are expected to continually develop as a teacher, a scientific ambassador to the general public, and as part of a scientific network. This may include taking advantage of professional programs offered through the university, active participation in external seminars, conferences, and workshops, and membership in one or more professional societies (e.g., the American Society for Microbiology), as examples.
- *Use technology responsibly and collaboratively.* Follow UConn's protocols and regulations for technology use. UConn has chosen Microsoft 365 as its standard office and cloud storage software. You must therefore ensure that your practices are compatible with this tool. Be aware of potential FOIA and FERPA implications of your UConn employment and separate your personal and professional accounts when this makes sense. Precisely record any generative AI procedures that you use and be aware of their ethical and disclosure implications (e.g., how text describing your unpublished research might be added to a tool's training model). Only use tools that keep your data within UConn (e.g., Microsoft OneDrive, Microsoft Copilot) unless cleared with me.
- *Be a good communicator.* Pay attention to messages that are sent to you and respond to them in a timely manner. Check your UConn email at least daily, as required by the policies of your employment. Use your UConn email for all official work-related communications. Also pay close attention to the lab Slack workspace, which is our designated medium for rapid communication among the group.

Your Relationship with the Lab:

- *Actively participate in laboratory meetings.* Lab meetings are times when, as a lab, we constructively critique each other's work, brainstorm new directions, and collaborate with each other to strengthen each other's research. Beyond punctual attendance, you will offer well-thought-out and constructive suggestions and criticisms and respect those given to you. You are also expected to share your progress during each update meeting, typically your latest figures. Our lab is the first and safest crucible for forming research; it is better that deficiencies are identified here than in public.
- *Be a good lab citizen.* Recognize that our laboratory is a shared environment with shared resources. If you use the last of a common reagent, it is your responsibility to order more. Likewise, if you break something it is your responsibility to fix or replace it. Ensure that the laboratory remains clean and organized so that the work efficiency of your colleagues is not compromised. Protect samples and data that are shared with others, especially where confidentiality is protected. Be respectful and tolerant, and work collegially with

all laboratory colleagues. Especially respect individual differences in values, personalities, work styles, and theoretical perspectives.

- *Be a good collaborator.* Collaborate both within and beyond our lab group, ensuring effective and frequent communication, mutual respect, trust, shared goals, and consistent acknowledgment of your collaborators' efforts.
- *Rigorously document all your methods and results.* Every experiment MUST be documented in its entirety, including EVERY result. To do otherwise is unethical and grounds for dismissal. Lab notebooks are lab property and therefore must be maintained to a standard where they can be interpreted by someone other than yourself. (You are welcome to a copy when you leave the lab.)
- *Any computer code that you generate must be properly documented and reproducible.* Expect that your code will be published alongside manuscripts. Broken code constitutes an irreproducible experiment, and as such is grounds for retraction of published work. Employ good programming practice to the best of your ability, especially commenting your code and using some form of version control.
- *Collect all necessary metadata for each of your experiments and document it properly in the lab database.* Most scientific resources that you generate (samples, cultures, DNA sequence, phenotypic data) have the potential to be used by others in the lab at some point, even after you leave. Such meta-analyses (acknowledging your original work) are impossible without complete documentation.
- *Discuss data publication plans (papers, conferences, public database deposition) with me BEFORE the data is released into the public domain.* This is for two reasons: (i) so that I can ensure that credit is allocated appropriately and ensure that omissions are rectified; and (ii) so that intellectual property can be adequately protected, either from competition or for commercial application as warranted.

Your Relationship with me:

- *Update me on your research progress and plans via regular meetings.* Regular one-on-one meetings (most often weekly) enable me to help you develop your research ideas and keep you from straying too far down unproductive side roads. Be prepared for these meetings, e.g., by having data ready to present (including visuals), experiments to report, conceptual ideas to discuss (e.g., arising from papers you read), and any other items that you want my feedback on.
- *Set and meet deadlines.* Deadlines keep you accountable for your progress. Short-term goals will be set during your weekly meetings. Longer-term goals will be set in collaboration with myself and your committee. Although there is flexibility for changes in plans and to accommodate many life circumstances, I expect that you will maintain these timelines to the best of your ability. Report on your progress toward these goals during our regular meetings.
- *Be mindful of the constraints on my time.* As a professor, I bear responsibility not only for the progress of my lab and everyone in it, but also for the students of the classes that I teach and for my commitments to the university and the broader community (not to mention my family etc.). It is therefore necessary that you allow me to organize my time efficiently, keeping the meetings that you set with me and letting me know your needs from me (e.g., comments on drafts or letters of recommendation) at least 1 week before their due date. Also use medium-term planning to understand when multiple rounds of feedback will be needed and if my availability to help you will be constrained (especially with finishing larger tasks such as thesis writing).
- *Provide feedback on my mentoring to you.* Not everyone has the same mentoring needs and personalities, so there will inevitably be places where my efforts do not line up with your preferences. I am not infallible but can only make adjustments when I know that they are needed.
- *Show good time management.* Frankly, people with poor time management are not typically successful in upper-level science. Use your work time efficiently so as to not distract yourself or your co-workers. Save recreational internet use for at home, and be prompt when attending meetings and when responding to Slack and email. Keep some informal account of your time use to ensure that you are meeting expectations. I may require a more formal account if your progress is lagging.

- *Discuss your work schedule with me.* All MCB graduate students work full-time on their degree projects, which are expected to comprise ~40 hours per week. This total includes the 20 hours per week that you contractually owe to your RA or TAs, with the remainder allocated to degree-related activities (e.g., classes, lab research, etc.). You should expect times when additional efforts are needed (e.g., during fieldwork or when pushing to generate preliminary data for a grant) but also that such time will be compensated for elsewhere. You may choose to work more than this (e.g., to pursue high-profile publications that will maximize your academic career prospects) but I do not require it.

How you plan to achieve your work obligations must be discussed with me each semester. I encourage you to flexibly organize your time (this is a major benefit of academia) and do not track your hours while you stay productive. Work to maintain a trusting relationship between us that will facilitate this. As part of this, you should: (1) Work in-person by default, because in-person attendance is typically required for collaboration and knowledge sharing with both me and others in the lab. (2) Have me approve your plans for day-long off-site work and be accountable for the efficient use of that time. (3) Notify me when you are unexpectedly absent, ideally as soon as you know but retrospectively if required (e.g., when incapacitated by illness). (4) Do not work alone until you confirm with me that you have sufficient training and experience to do so safely.

My hope is that these procedures will help you efficiently progress toward your degree. However, if your productivity lags we will explore specific reasons why that might be the case and ways to enforce accountability (which may include designated work hours or locations).

- *To the extent that you are willing, keep me aware of personal issues that impact your progress toward degree completion.* This is not a requirement. However, I have specific training to deal with many such issues and can help you find resources that you may not be aware of. Documenting such challenges can also help mitigate negative institutional consequences when progress toward completing your degree is limited by circumstances beyond your control. My tenured status can also allow me to pursue uncomfortable subjects on your behalf.
- *Discuss work and educational opportunities with me before agreeing to them.* Because you first enrolled in your MCB graduate program, progress in this program (and not any other) determines your standing at UConn. Any other activities must therefore be performed outside your full-time commitment to your MCB graduate program. Do not assume that I will automatically approve such activities but instead demonstrate that you have sufficient bandwidth to take them on. Follow all expected procedures for external employment (e.g., graduate school supplementary employment forms, state dual enrollment rules, visa regulations, tax reporting obligations). Depending on the situation, I may require you to agree to certain conditions before providing my approval. Update me regarding your external commitments regularly.
- *Discuss vacation plans with me.* Vacations and work-life balance are important for creative thinking and good health. However, consult with me before making plans and understand that some activities are time-sensitive (e.g., fieldwork, preparing for grants, conferences, and some behavioral assays). Generally, you should not take more than 20 days of personal time (vacation, sick days, or otherwise) per year, as is standard for many entry-level jobs and stated by the GEU contract. These days should mostly occur outside of the semester, with in-semester days cleared with me in advance (as per the GEU contract). If illness or caregiver situations pose a recurring problem, please discuss this with me so that we can explore appropriate accommodations (either informal or via some type of leave).
- *Keep the lab and I apprised of your schedule.* Teamwork within the lab requires frequent interactions. To facilitate this, use the lab calendar to indicate when you will be out of the lab, e.g., due to teaching, classwork, or approved work-from-home time, or personal time off. This will help others find you when needed.

Responsibilities of the graduate student mentor:

Your Degree:

- *I will help you navigate your graduate program.* Although you are responsible for keeping up with deadlines and being knowledgeable about the requirements of your program, I will help you interpret these requirements, select appropriate coursework, select appropriate committee members, etc.
- *I will help you understand and navigate your dual role at UConn as student and employee.* Each of these roles has different obligations, and I will help you understand and navigate them.
- *I will be committed to your research project.* I will help you design your independent research within the scope of my lab's research for your thesis project. I will be intellectually committed to your research, including when you extend the research interests of my lab. This includes helping you to generate experimental and theoretical ideas, interpreting and constructively criticizing your data, contextualizing your data within a broader context, and supporting you in presenting your ideas and results to the scientific community. I will help you set reasonable goals and keep you accountable for reaching them.
- *I will provide financial resources for you as appropriate and/or according to my institution's guidelines so that you can conduct your thesis research.* To the best of my ability, I will provide the resources that you need to conduct your experiments. Depending on funding, I will also attempt to provide you with some teaching relief, especially later in your degree program and as your progress warrants. I will support you in trying to obtain external funding for your degree program.
- *To the extent that I can, I will help you overcome personal challenges that hinder your progress.* I will guide you to resources and mentoring to help you overcome roadblocks and provide you with sufficient flexibility to engage with these resources. I will engage in professional development to support this and be clear about what accommodations can be offered and how to access them.

Your Career Development:

- *I will ensure that you receive world-class training.* I will provide resources and mentorship, both myself and from more senior lab members, so that you have the technical skills you need to accomplish your research.
- *I will facilitate your training in complementary skills needed to be a successful scientist, such as oral and written communication, applying for grants, lab management, mentoring, scientific ethics, and professionalism.* I will encourage you to seek teaching opportunities, even if not required for your degree, include you in grant writing and manuscript reviews when appropriate, and provide opportunities for you to mentor junior researchers. I will enforce high standards of scientific ethics and professionalism.
- *I will help you build your professional social networks, including at scientific meetings.* I will attempt, as funding allows, to send you to a major conference every year when you have material to present. I will also help you to identify and apply for travel fellowships to pay for attending these conferences.
- *I will provide career advice and assist you in finding a position following your graduation.* I will give advice and feedback on your career goals and encourage you to explore opportunities both outside and within academia that suit your interests and progress. I will promptly provide honest letters of recommendation whenever they are requested of me.

Your Relationship with the Lab:

- *I will work tirelessly for the good of the lab group.* The success of every member of our group is my top priority, no matter their personal strengths, weaknesses, and career goals.
- *I will provide everyone that I supervise with an environment that is intellectually stimulating, emotionally supportive, safe, and free of harassment.* I will enforce a culture governed by collegiality that values differences in personalities and opinions.
- *I will enforce standards for communal behavior in our lab group.* I will ensure that you are not disadvantaged by others' poor stewardship of lab supplies, samples, and data, e.g., care of lab equipment and archival of samples, metadata, and computer code.
- *I will discuss issues relating to authorship and intellectual property with you and ensure that credit is allocated fairly.* This includes mediating a consensus between collaborators inside and outside of the lab, and making any expectations of confidentiality clear at the start of a project.

Your Relationship with me:

- *I will be available for both regular one-on-one meetings and informal conversations.* Despite my busy schedule, meeting with you is always a priority. When I am in my office or the lab, you should always feel free to interrupt me whenever you need something or can benefit from my feedback. As noted above, please schedule longer meetings and understand that other obligations may mean that I am sometimes running off for things like meetings and classes.
- *I will both trust you to organize your time appropriately but also keep you accountable for your progress.* I will work to maintain a trusting relationship with you that maximizes your productivity and allows you to maintain an appropriate work-life balance. At the same time, I will keep track of your progress and initiate any conversations needed to keep this from lagging.
- *I am committed to mentoring you, even after you leave my lab.* My ultimate goal is for your success. I will advise you and guide your career development for as long as you wish. I am happy to have many former mentees as friends and colleagues.
- *To the best of my abilities, I will be supportive, fair, accessible, encouraging, and respectful.* I will work hard to understand your unique situation and mentor you accordingly. Everyone comes from different backgrounds and has different goals and constraints, and I will work hard to help you balance your unique situation with the high expectations of your graduate program. If there are ways that you think I can better strengthen your confidence, critical thinking, skepticism, and creativity, please discuss them with me. Your success is my ultimate goal.

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