HC70A and HC70AL Exit Questionnaire Professor Bob Goldberg

1. What have you learned about working in a laboratory after completing HC70AL?

After completing HC70AL, I have learned that working in a lab is requires a lot of patience. One has to be willing to acknowledge their mistakes and then work tirelessly in order to identify what could have gone wrong. Only by doing so can one be able to reach their end results. Thus I have learned that working in a lab requires one to constantly think about every little thing they are doing, such as understand even the most minuscule details in order to achieve a particular goal.

2. Do you want to pursue a career in research science after taking HC70AL? Why or why not?

No I do not plan to pursue a career in research science. I absolutely loved my experience with HC70AL and I plan to apply the skills I have learned to my own career aspirations. However, as of now I plan to continue on my path toward Public Health Administration.

3. How did your experience in HC70AL impact your future academic decisions?

HC70AL has impacted my future academic decisions by encouraging me to become more involved in research projects. The class served as a significant reminder of the importance of research and it has motivated me to play an active role. I plan to apply for more research positions in my particular field of interest which is Public Health.

4. How would you compare your HC70A and HC70AL experience to that of other courses you have taken at UCLA?

Both courses are like nothing I have taken while at UCLA. They both required me to use a different mindset than my other classes by having me constantly use my critical thinking skills and by having me question EVERYTHING. After taking both of these courses I can no longer see things in black and white.

5. Do you think more critically in your other classes and/or in general since taking HC70A and HC70AL?

Most definitely! I have learned to question everything and to think multiple times before giving a "just" answer.

6. How do you feel that HC70A and HC70AL impacted your academic experience at UCLA?

I feel prepared to take and excel in any class while at UCLA. I have come to the conclusion that it is not just about the rigor of the course material but more about the dedication applied to the course.

7. Did you decide to change your major and/or career objectives as a result of taking HC70A and HC70AL? Why or why not?

No. I have attained a greater appreciation for scientists in general, however; I have a great passion towards Political Science and Public Health which I plant to pursue.

8. What have you learned about how science is carried out from taking HC70A and HC70AL?

Like I said before I have learned that science requires a lot of patience and an in depth understanding of all of the processes. One cannot understand what their results mean if they do not understand what in the world they are doing therefore you must learn to be the expert in everything you do.

9. How did working in the lab affect your appreciation for new discoveries that you read in textbooks, newspapers, magazines and/or view on television?

I have acquired a greater appreciation for innovations in all fields. I find myself constantly borrowing the medical journals from the neurologists in my offices in order to read about any new breakthroughs.

10. How did taking HC70A and HC70AL impact your decisions on what future classes and/or graduate programs you are consider taking or pursuing?

I plan to take more challenging courses and remain with the Honors program because classes such as HC70A and AL have provided me with academic challenges that I thrive for.

11. Looking back on your laboratory experience in HC70AL, how do you view scientists and the process of scientific discovery?

I have a deep respect for scientists and their capability to be so patient with the process of making a scientific discovery. Scientists are constantly on the clock and despite the pressure one may fee, a good scientist also understands the need to be patient in order to attain optimal results. A good scientist understands that no matter how exciting possible results may be they must also be valid and repeatable.

12. Looking back, how do you feel now about your 20 week experience in HC70A and HC70AL and what these courses taught you about science, teaching, discovery, and yourself?

I am so grateful for the opportunity to take both courses. They were both the most challenging and also most rewarding courses I have taken while at UCLA. They taught me the significance of research and the need question everything. The courses also taught me that I can take on anything I set my mind to. This divide that people often set between North and South campus majors is completely unnecessary and if one wants to excel in either than you need to think similarly. That is with critical thinking skills and a desire to be the expert.

13. Please comment on what you will be doing next year. What is your year and major? What courses will you be taking next year? What are your career objectives?

I will be continuing at UCLA as a 2nd year Political Science Major and seeking a Public Health Minor. I will continue on track to fulfill my Political Science requirements and I have been able to acquire a spot in one of the Public Health courses which is restricted to students in the minor or in graduate school. I am also looking into research positions in the Public Health field. As for career objectives, I am considering going into either Public Policy for Public Health or Hospital Adminsitration.

1. How did your experience in HC70AL impact your future academic decisions? Prier to HETOAL I had an ingrest in doing research be - never had research experience. A feer working in the lab during the class I can conclude that Research is definisely something i have a strong inverest in and will continue doing 2. How would you compare your HC70A and HC70AL experience to that of other courses you took at UCLA? MC70A and SCPOAL are amozing and unique courses. Other classes as UCLA do not compare. Dr. Goldberg offers an inspiring perspective of science and learning shot is not found in any other course. These courses are "must-take courses for students of UCLA. 3. Do you think more critically in your other classes and/or in general since taking Absolutely. In other classes, we are asked to memorine and spit back information. In this class critical thinking is held so the highest standard. Understanding concepts and being able to think about what is going on is what I berned from these courses. 4. How do you feel that HC70A and HC70AL impacted your academic experience at UCLA? The classes definitely in pacted my sciensific inserest. Research and science now that I enderstend them mere its something I went to persul. 5. Did you decide to change your major and/or career objectives as a result of taking HC70A and HC70AL? Please elaborate why or why not. As, I was interessed in science he fore toling shere classes but now I am even more interested. classes confirmed my interests.

Now shot I have had experience in the lob I am even more drawn to it

6. What have you learned about how science is carried out from taking these classes?

Farina tokes an enermous an out of terril and patience. There are so many people who have spent their lives centributing to science and scientific techniques that I use in lab. I have a lot more oppreciation for how science is cerried out and the riger involved.

7. How did working in the lab affect your appreciation for new discoveries that you read in newspapers and magazines and view on television?

Now I enclosed the amount of nerth sequised to make all those discoveries. It takes an enermous amount of work and is probably the mest time consuming coreer. But at the same time it an exciting process. You're actually deling into the unknown and centributing to human knowledge. I have a new found respect for science.

8. How did taking HC70A and HC70AL impact your decisions on what classes or graduate programs you are pursuing?

HC70A and HC70AL gove me a tosse of science research performed as an incredibly high accordance kerel. Now short I have experienced it I can centism that it forms Science is semesthing I can see myself closing for a large time. I will definitly get a ph. D.

9. Looking back on your laboratory experience in HC70AL, how do you view scientists and the process of scientific discovery?

Scientific discovery not only takes a lot of terrie and effect but is exciting and inigerating. It requires you to really he dedicated to barning and understanding the field you choose to research and to think critically about absenvations as well as he sheptical about conclusions. I have the utmost people for people who do caience.

10. Looking back, how do you feel now about your 20 week experience in HC70A and HC70AL and what these courses taught you about science, teaching, discovery, and yourself?

Looking of all the progress of made, its amoring thou much I berned. Before shoul courses I didne know all about genetic engineering or seed and plents - I berned an incredible amount of information about science, cliscency, and about myself. Science is fascinoting

11. Please comment on what you will be doing next year. What is your year and major? What courses will you be taking next year? What are your career objectives?

Laber to, from this mement forth search for a lab in which I can persicipate in undergraduose research. I plen to take more regerous science courses and delive deeper into topies taught in the class. I am a 3rd year. Biochemistry major, to I'll he taking many mere beechemistry courses and burining all about Dut. I want to go to grad school, possibly get a M.D. / Ph D since I have an interest in both fields.

1. How did your experience in HC70AL impact your future academic decisions? Yes I will be looking forward to taking more classes that will involve similar real life research experience and classes that involves more challenging materials & outlied thinking.

How would you compare your HC70A and HC70AL experience to that of other courses you took at UCLA?

They are the most interactive and challenging experience I have ever had at UCIA. You have to leave and know about a lot of the materials, but you are doing this in a friendly, collaborative environment.

3. Do you think more critically in your other classes and/or in general since taking HC70A and HC70AL?

Yes. I would always think about why things happen and fry to understand the entire process and not just amply take things in by the way they're presented.

4. How do you feel that HC70A and HC70AL impacted your academic experience at UCLA?

They are the highlight of this past year, perhaps the most fun I've had learning in any class and the most rewarding class.

Did you decide to change your major and/or career objectives as a result of taking HC70A and HC70AL? Please elaborate why or why not.

No. I will most likely stay as a brochem major, but I may consider venturing deeper into the field of indecular brology. In the past zive thought that biology was just memorizing details, but the classes have shown that there's much more than that and much more fun, interesting discoveries that can be made with the knowledge.

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- 6. What have you learned about how science is carried out from taking these classes? Science takes a lot time, effort, patience, and discipline. Sometimes you're just explaining and not really knowing what to expect. You may not always get what you expect, and when you don't, you need to be able to figure out what could have possibly went wrong, and find ways to continue on with your quest for the knowledge.
- 7. How did working in the lab affect your appreciation for new discoveries that you read in newspapers and magazines and view on television?

Every single discovery, scientific publication etc. is the produce of lots of scientists hard work. Years of research can be behind even one Simple, sceningly unimportant discovery. Besides, researches and discoveres are always built on past discoveries, and together they add up to a lot of time and work. We should appreciate the discoveries and not just dismiss them as just another new finding.

8. How did taking HC70A and HC70AL impact your decisions on what classes or graduate programs you are pursuing?

I will definitely consider toking more classes that gives honds or vessearch experience that is as close to the real life as possible. I am still debating between med school or grad school, but I think that I would most likely take the availability of vessearch into sevens vonsideration.

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9. Looking back on your laboratory experience in HC70AL, how do you view scientists and the process of scientific discovery?

Scientists have a lot of patience & self-discipline, and they must really love the subject they are norling with they have to make science a big part of their lines. Scientific discovery is the result of the collaborative effort of many scientists with countless time and effort put behind it. It's not as simple as a straight, flat road, but a road that may be filled with burness & curses.

10. Looking back, how do you feel now about your 20 week experience in HC70A and HC70AL and what these courses taught you about science, teaching, discovery, and yourself?

Sometimes we (including myself) focus too much on the little details and lose sight of the big pieture, and end up confused. Teaching is the a process of quiding whoever your teaching and helping discover the new knowledge from existing knowledge for myself, I sometimes get caught up in expertations and process gets impatrent when going through the process, and this is definitely something that I can improve on.

11. Please comment on what you will be doing next year. What is your year and major? What courses will you be taking next year? What are your career objectives?

I'm going to be a 3rd year blochem major. I will be starting my upper division them classes, finish up my lower division life sciences causes and general education courses. I'm also looking into taking some upper division electives. My career objectives fall somewhere in the medical field, and I'm lodang into perhaps becoming a physician or perhaps some other health-related profession

- 1. How did your experience in HC70AL impact your future academic decisions? It has encouraged me to the classes that I am admily wherested in, not just Altill requirements.
- 2. How would you compare your HC70A and HC70AL experience to that of other courses you took at UCLA?

 I feel the a much higher anality of learning was achieved in this class, by construintly asking us questions, encouraging us to collaborate and being available, the higher helped us learn the material inside & out.
- 3. Do you think more critically in your other classes and/or in general since taking HC70A and HC70AL?
 These classes have trught me that passive learning is for changes. Truly innovation and progress are driven by critical thinking I can't learn by spitting back what professors say during lectures. Each piece of information is a piece of a puzzle.

 To need to bean how it all fits together
- 4. How do you feel that HC70A and HC70AL impacted your academic experience at UCLA?
 They extablished a really solve foundation for knowing how to study and how to learn that is invaluable hot just for science classes but life in general
- 5. Did you decide to change your major and/or career objectives as a result of taking HC70A and HC70AL? Please elaborate why or why not.

 Taking this class, I sum people who were truly interested in and passional about what they were doing. I think I also need to find my academic muse. I don't think it is psychology.

 I am planning to change; I just don't know what yet.

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6. What have you learned about how science is carried out from taking these classes? Every stryke process we take for granted is the fruit of someone else's Merwen labors. It has trung it me how much saether and puttince scients went through, and much he appreciate it more.

7. How did working in the lab affect your appreciation for new discoveries that you read in newspapers and magazines and view on television?

It has make me want to not just to marvel out but also understand the want they do there arraches things.

I need to think thany you're just too young there things are just too comptracted to understand.

However, now I can beginning to rentize that great complex ideas are built on shapler earlier to day of concepts and that I can learn almost any thing that I want as long as I stop being so larzy.

8. How did taking HC70A and HC70AL impact your decisions on what classes or graduate programs you are pursuing?

I'm still not sive what I have planned for my future, but whatever I'm doby I want it to be challenging interestry, and for enough to be for the rest of my like

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9. Looking back on your laboratory experience in HC70AL, how do you view scientists and the process of scientific discovery?

I have a latest respect for the sauther and consultment they have

10. Looking back, how do you feel now about your 20 week experience in HC70A and HC70AL and what these courses taught you about science, teaching, discovery, and yourself?

I leaves that I definitely need to work harder. I have what I takes to that I work out to break to the think containing and than cast Mays; I just need to break her myself to get what I work.

11. Please comment on what you will be doing next year. What is your year and major? What courses will you be taking next year? What are your career objectives? Next year I will be a secondyear sometiment with a major other than psyche-biology. I will be retening to my heart and figure out what I want to do with my life.

1. How did your experience in HC70AL impact your future academic decisions? I like research. There's something about leaving the lab after so many hours that just feels like you did something. Like every day in the lab, accomplish something new. I don't know if it's what I want for the rest of my life, but light now, I definitely want 2. How would you compare your HC70A and HC70AL experience to that of other courses you took at UCLA? HCTOAL is completely new and different to anything I've ever done. So there isn't even a companison. HC70 A was better than the huge technies and definitely made we excited to learn. It also highlighted the best parts of interdisciplinary study. I would dompare it to my English writing classes - they're about what you warn, not a 3. Do you think more critically in your other classes and/or in general since taking grade HC70A and HC70AL? Definitely. I've always liked making connections between different subjects and HC70A really showed me to what extent that is not only possible, but necessary. HCTOAL taught me to "think like a scientist" hard, see "failure" as an opportunity, 4. How do you feel that HC70A and HC70AL impacted your academic experience at I found some semblance of direction. And that was amazing and exciting. 5. Did you decide to change your major and/or career objectives as a result of taking HC70A and HC70AL? Please elaborate why or why not. SUPPLY and I also realized that I really really love history (and science history) from tarking about the discovery of DNA and the history or engenics etc.

6. What have you learned about how science is carried out from taking these classes?

It's a lot like archaeology. The general public hears only about the really big game-changing discoveries. But those don't happen every day.

It's a lot of digging, and strategizing, and problem-solving. Fewer explosions, too. For some reason I feel like all scientists are constantly exploding things.

7. How did working in the lab affect your appreciation for new discoveries that you read in newspapers and magazines and view on television?

Much like what I said above, you understand that all these discoveries didn't happen in a week- Again, like archaeologists, it's day-in and day out- It can be demoralizing at times, but I think that just makes the discoveries all the more special.

8. How did taking HC70A and HC70AL impact your decisions on what classes or graduate programs you are pursuing?

I decided to, at least for now, dive into a science major. I'm trying to take things one step at a time and see where I want to go from there- but, yes. Definitely hudged me into science.

9. Looking back on your laboratory experience in HC70AL, how do you view scientists and the process of scientific discovery? I've always had a great appreciation for research because of my dad. But I never fully understood - and still don't entirely - the implications of making a discovery I've definitely gained an appreciation and even admiration for the patience and perseverence and passion required to make scientific discoveries.

10. Looking back, how do you feel now about your 20 week experience in HC70A and HC70AL and what these courses taught you about science, teaching, discovery, and

I feel very grateful to have stumbled upon HC70A and HOTOAL. This is not enough space for me to even begin to discuss what I've learned, but I will say this: for a hopelessly undeclared first year, to these two classes have been completely invalidable. I cannot say thank you enough.

11. Please comment on what you will be doing next year. What is your year and major? What courses will you be taking next year? What are your career objectives? year. I'm taking the lower division science core classes, and a tew English and history classes as well (I'm looking into a history of science minor) Career objectives? All I know right now is that I want to graduate and hopefully teach for Teach for America for a few years! And after that, I'll figure it out!

1. How did your experience in HC70AL impact your future academic decisions?

It has made me more open to taking the science classes, which 2 was previously unenthorought about the to lackbuster experience in the post, which HCTOAL has for reposted. Furthermore, this research experience has kindled my interest in online efforts in other tields: of riverce.

2. How would you compare your HC70A and HC70AL experience to that of other courses you took at UCLA?

ACTOR and ACTORL are obsolutely unique closes to which 2 how find so egaal at VCLA: other closer are rother dull and mergaging while the TOA at the TOAL marge to been my attention for

for larger panels of the and also teach me mothers I would

not have form accomple without them. The lab experies in the TOAL

is in the most argust me in vereinh tools and methods to which

I would never have been expected and about me how recent really happens; it has also taphs or my

3. Do you think more critically in your other classes and/or in general since taking

the TOA and HCTOAL?

HC70A and HC70AL?

I have bearn more critical and engaged in my other discrept dating a more active inde turny discreption sectors and draly creater discreptions, which I twenty has not only improved the cluster for more both also my press transmitty. I have good a bother ordereduly of motivation when produce and have begun to only man quadric all feels more drained when army and media, especially their ideal to setting 4. How do you feel that HC70A and HC70AL impacted your academic experience at UCLA?

UCLA?

They has absolutely book a parter experience in my four at UCLA, without which I would sheel that college theret did hit delifer try adolly from his school. I nown expected to have a form into the life some again, but I am extremy also that I did, or I would he born extremely desolved with my 5. Did you decide to change your major and or career objectives as a result of taking experience at UCLA.

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experient and UCHA HC70A and HC70AL? Please elaborate why or why not. without those chesses.

No, though I have always been interest in the sciences, I do not feel that the lab literfule is suited to me; of the very least, not a profes lab, as I profes to deal with the workings of society rather than of aggarains.

- 6. What have you learned about how science is carried out from taking these classes? I have learned that seiona takes a very lay time, and thou modulers happens along the way will legther the process; we need to dates step to acteppte on row problems, as well as troubleshoot if they attle occur. Benti that, a sold Contains in the arbitect matter is necessary to interest what is happened, and is ided to supplement the novelably needed cross thanks, let own it one collaws than ideas, one my not town originally of interpol everythis correctly, which is my collaboration is absolutely except in science.
- 7. How did working in the lab affect your appreciation for new discoveries that you read in newspapers and magazines and view on television?

It has gran the a new appreciation?

If has gran the a new appreciation for scientists and their decorates: previously, I would simply accept that a discovery had been made, and histly worth when thou would be implicitly and why if way taking so long. Nany, I appreciate that all that any discoveres will have to reach that attempt and that any discoveres will have to reach that attempt and that any discoveres will have to more time, before being even with air profession. Moreover, more time, before being even with air profession and possible done as I appreciate the country of the profession of the p

graduate programs you are pursuing?

have made me interested in Jolepy classes done in a simple Frishing which challege students and give students a deste of the real ships, with them simply teach that mothers From Ferdboder night my indender in the char, dend for abolish to think, or growder in reality. I am still widecided on graduate programs to take, as it is a long widecided on me being a freehom trophomore, though I do not believe it would though my plans heavily gam that I not believe the world though my plans heavily gam that I an whilely to charge majors, though it may make me ben troub truly indictative which teach like I was tought in Herest Herold. ord HC70DL.

9. Looking back on your laboratory experience in HC70AL, how do you view scientists and the process of scientific discovery?

think overfield an volk, rolfless oil possesse. Most people don't appreciate how my hours at how much address goes into soince, and ACTOAL has apaid by eye to that. I have also seen that the process of soundies directly is full of uncertainties and interview, and it takes a very by the to overcom these problems. Scratific discounty D a pitters with is everded to the admind of society, and I feel that schools him been industy magneted of em demail because of a lack of interstily both theoretically at practically.

10. Looking back, how do you feel now about your 20 week experience in HC70A and HC70AL and what these courses taught you about science, teaching, discovery, and yourself?

I feel that there so weeks how been the birt and I has loved that may admention cooperations of my like. It has touch me how though I egosy though difficult science II, and how much better teaching could be if more profesors tought droves like profesors Goldberg does. It has also storm me have much more can be discovered, at how had that can be; felds of strong. the de post, I had believe that we had I have land that our inhabity of everyth is for the 2 hd previous assumed the only the season may some than it so much man have and in the 11. Please comment on what you will be doing next year. What is your year and major?

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What courses will you be taking next year? What are your career objectives?

I will be taking my second year of arroady down here at UCLA. I am a Medil Economic premajor vive, though 2 my another to a double more in Economisth Model or Hodgers. I will be taking & Moth and Rammics classes next quarter, and a GE in autroborology or some other life some closy is my schildre my charge think 2 believe 2 will be dily that down. I am get uncerdan about my career objective, though I am it a believe in redding things in when, predering to leave downs apen; however, I am curedly afterpolity to begin a current in business at smore related Fields. I will be afterply to get interply & the summer of 2015, is a business, technology or perhaps a biotechnology firm.

1. How did your experience in HC70AL impact your future academic decisions?

It convinced me that I do not want to work in a lab but I may reconsider persuelny a career in science, something I had Otherwise disregarded

2. How would you compare your HC70A and HC70AL experience to that of other courses you took at UCLA?

For one I actually had to work hard day in day out which isn't that common north compact. In addition I had to actually apply what we learned in more open ended scenarios, something that & encommon at UCLA in general

3. Do you think more critically in your other classes and/or in general since taking HC70A and HC70AL?

No. I have a tendency to stoop to the level required to get an A.

4. How do you feel that HC70A and HC70AL impacted your academic experience at UCLA?

Its is really one of the only classes where had to actively problem solve without having 5. Did you decide to change your major and/or career objectives as a result of taking

HC70A and HC70AL? Please elaborate why or why not.

Not my major but I do want to participate In blatelle from a commercial or legal stand point as this class has convinced me its the only relevent field of growth

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6. What have you learned about how science is carried out from taking these classes?

7. How did working in the lab affect your appreciation for new discoveries that you read in newspapers and magazines and view on television?

8. How did taking HC70A and HC70AL impact your decisions on what classes or graduate programs you are pursuing?

9. Looking back on your laboratory experience in HC70AL, how do you view scientists and the process of scientific discovery?

with a great deal of respect, hamility, and purhaps a bit of plty for the Inder and tedium all scientific discoveres require

10. Looking back, how do you feel now about your 20 week experience in HC70A and HC70AL and what these courses taught you about science, teaching, discovery, and yourself?

That science is not a text book or a protoid.

It is a confinence of knowledge, experience, long hours, and creative thinking to produce any of what we take forgranted. Although it is important to memorize terms and structures, these are just the building blocks, the was buttly creative to make sease of the big picture. But ane was look beyond and understand the interactions between these various moving parts

11. Please comment on what you will be doing next year. What is your year and major?
What courses will you be taking next year? What are your career objectives?

I'm higology into my 3rd year as a understand and poll sel econ double major and will continue learn in life. to take ressessary classes in these fields.

I hope to participate in a CIA, Browling or CSIS internship next summer. Je plan on pursueing a larger in law, floance, or national security. Valesc pursueing that latter, I hope to gain a large amount of wealth and I wish to across great power and influence regardless