Appendix 1

Research tool.

**Multiple-choice section**

1. Please state your name

Please think of your educationally experience and respond to the following questions:

1. Up to this point in your collegiate experience how many courses have you had with evolutionary themes?
   1. None
   2. 1-2
   3. 3-4
   4. 5-6
   5. 7+
2. To what degree are you religious?
   1. Not at all
   2. A little
   3. Moderate
   4. Quite a bit
   5. Very
3. To what degree does religion impact your daily life-decisions?
   1. Not at all
   2. A little
   3. Moderate
   4. Quite a bit
   5. Very
4. To what degree do you participate in religious activities?
   1. Not at all
   2. A little
   3. Moderate
   4. Quite a bit
   5. Very
5. Which of the following best represents your beliefs?
   1. Agnostic or Atheist
   2. Buddhist
   3. Christian
   4. Hindu
   5. Jewish
   6. Muslim
   7. Spiritual but not religious
   8. Unitarian/Universalist
   9. Other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. If you are a Christian please select the affiliation that BEST describes your personal beliefs AS THEY ARE NOW.
   1. Roman Catholic
   2. Eastern Orthodox
   3. Baptist
   4. Church of Christ
   5. Episcopalian
   6. Anglican
   7. Lutheran
   8. Methodist
   9. Mormon/Latter Day Saints
   10. Pentecostal
   11. Presbyterian
   12. Nondenominational
   13. Other protestant
7. Please select affiliation that best describes your beliefs before college or UNDER WHICH YOU WERE RAISED.
   1. Agnostic or Atheist
   2. Buddhist
   3. Christian
   4. Hindu
   5. Jewish
   6. Muslim
   7. Spiritual but not religious
   8. Unitarian/Universalist
   9. Other (please specify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Choose the following that best describes your opinion **at the beginning** of your college experience:
   1. I did not accept evolution in general
   2. I was not sure
   3. I did accept evolution in general
9. Choose the following that best describes your opinion **at the beginning** of the molecular evolution or Evolution class:
   1. I did not accept evolution in general
   2. I was not sure
   3. I did accept evolution in general
10. Choose the following that best describes your opinion **at the end** of the molecular evolution or Evolution class:
    1. I did not accept evolution in general
    2. I was not sure
    3. I did accept evolution in general

THE NEXT QUESTIONS REFER SPECIFICALLY TO HUMAN EVOLUTION.

1. Choose the following that best describes your opinion **at the beginning** of your college experience:
   1. I did not accept HUMAN evolution in general
   2. I was not sure
   3. I did accept HUMAN evolution in general
2. Choose the following that best describes your opinion **at the beginning** of the molecular evolution or Evolution class:
   1. I did not accept HUMAN evolution in general
   2. I was not sure
   3. I did accept HUMAN evolution in general
3. Choose the following that best describes your opinion **at the end** of the molecular evolution or Evolution class:
   1. I did not accept HUMAN evolution in general
   2. I was not sure
   3. I did accept HUMAN evolution in general

**INTERVIEW/FOLLOW-UP QUESTIONS (these questions are meant to be used in conjunction with the multiple choice section.)**

1. Stance on evolution at the beginning of college experience.
   1. If accepts: what influenced you to take that position?
   2. If rejects: why did you not accept evolution?
2. If view on evolution changed at all throughout your undergraduate experience.
   1. If yes: what influenced you to change your mind?
      1. Evidence: any specific thing?
      2. Church: what caused you to change your mind?
      3. Role model: how did he influence you?
   2. If no: did your previous view of evolution play a role in you learning in your biology class? (How so?)
3. Did your acceptance of evolution increase over this semester?
4. Before taking a collegiate level science class what were your thoughts on human evolution.
   1. If positive: what influenced you to accept it?
   2. If negative: what influenced you to *not* accept it?
5. View on human evolution changed
   1. If yes: what influenced you to change? (evidence, church, role model)
   2. If no: why hasn’t it changed?
6. Do you know your religion’s position on evolution?
   1. If so what it is it?
   2. Does the religion accept or support / reject / or is neutral to evolution?
      1. How certain are you about this being the official position?
7. As you have learned more about evolution, how do you feel that it has affected your faith, if at all?

Appendix 2

**Evolution as a unifying theme**

1. *“something that really helped in class was going over multiple aspects of evolution so not only did he teach us what evolution was but how it relates with geography and how it relates with genomes….. I think that really helped tie it all together for me”*
2. *“Really just evidences stacks up to molecular evidence and everything like that the fossil record just all the evidences.”*
3. *“There's just so much scientific evidence that supports it I don't know how anyone could ever doubt it.”*
4. *“Evolution was laid out in front of us in 1610 and 1620 and through lots of classes…. In vertebrate zoology and mammalogy it was just kind of laid out in front of us…. and It's hard to deny the facts.”*
5. *“Just taking the classes and seeing the evidences, it's pretty supportive.”*
6. *“see the evidence behind it… You know that there's proof that things did evolve and change. So I it started to really open my eyes…so okay it’s there... it happened... you can't deny the evidence from the different fossil chains they have… proof in the genetic evidence.”*

**Fossil record - especially for human evolution**

1. *“The activity we did in class with skulls was really helpful to me, the chimp and human skulls.”*
2. *“Again not knowing about it or seeing the evidences, one of the bigger things was seeing the skull sizes in the primates and humans.”*
3. *“after learning about fossil records and seeing phylogenetic trees and being able to see the physical evidence of it it's hard to refute it.”*
4. *“So seeing the different homologies … that's the big thing for me.”*

**Role Model**

1. *“Honestly I was at the point that human evolution wasn't something I could accept … I was still kind of unsure... because of conflicting religious views… it was black-and-white it was either human evolution could be true or it would kind of defy the other position of religion and vice versa if one was true the other can’t be true….I was taught how you could reconcile the two..”*
2. *“(the instructor) was really able to bridge the gap … (the instructor) helped me see there's a lot of different thought processes and bridges that you can make between the two they don't have to be black-and-white.”*
3. *“An enthusiastic professor taught me you can reconcile science and religion.”*

**The influence of a religious scientist role model increases acceptance**

1. *“I think it had a lot to do with learning about evolution, learning what it actually meant it's not that we came from monkeys but actually learning in depth what evolution meant what evolution was that allowed me to be able to say oh I can still believe in the Bible and believe in evolution they can go hand-in-hand, it's not one or the other.”*
2. *“just looking at things sequentially and an understanding is non-conflict, it's hand in hand relationship with religion and religious beliefs about creation and those things. it didn't conflict and so it didn't give me any reason to deny it.”*
3. *“I don't think it really discouraged my religious views and I think it goes with them as well”*

**No change**

1. *“We are as confident in evolution as we are in gravity. Just not clear on some of the details because of the geological time scale…”*
2. *“I think it just enhanced and verified what I already knew about evolution. and helped clarify it more…”*