

Table S1. Descriptive Statistics for Pre- and Post-survey Items (n = 28). Students rated their likelihood (on a 5-point scale from definitely not/very unlikely to certain/very likely) of pursuing the choices outline in items 1–5, as well as their agreement level (on a 5-point scale from strongly disagree to agree) with the statements in items 6–14.

Survey Item Description	Pre-Lesson Mean $\pm$ S.D.	Post-Lesson Mean $\pm$ S.D.
1. Pursuing a STEM major	4.14 $\pm$ 1.1	4.00 $\pm$ 1.2
2. Pursuing interdisciplinary STEM	3.48 $\pm$ 1.2	3.52 $\pm$ 1.2
3. Pursing non-STEM field	2.72 $\pm$ 1.2	2.93 $\pm$ 1.2
4. Pursuing trade or vocational school	2.90 $\pm$ 1.3	2.72 $\pm$ 1.3
5. No further education after high school	1.14 $\pm$ 0.45	1.24 $\pm$ 0.69
6. I'm familiar with some of the current research happening within the STEM fields.	3.48 $\pm$ 0.95	3.83 $\pm$ 0.80
7. I am confident that I could major in a STEM field in college (if I wanted to).	4.21 $\pm$ 1.0	4.28 $\pm$ 0.84
8. I am confident that I could succeed in college science and engineering classes (if I wanted to).	4.17 $\pm$ 0.97	4.17 $\pm$ 1.0
9. I have confidence in my ability to accurately collect and record data from experiments.	3.97 $\pm$ 0.94	4.07 $\pm$ 0.96
10. Studying science and engineering topics is an enjoyable experience.	4.00 $\pm$ 1.13	4.17 $\pm$ 0.97
11. I get personal satisfaction when I plan and conduct new experiments.	4.07 $\pm$ 1.0	4.21 $\pm$ 0.83
12. I view engineering as its own separate field, with few connections to chemistry, physics, or biology.	3.31 $\pm$ 1.34	3.00 $\pm$ 1.31
13. I can understand the connections between various STEM fields.	4.03 $\pm$ 0.82	4.21 $\pm$ 0.77
14. As I currently understand it, the topic of mechanobiology has little relation to what I experience in the real world.	3.24 $\pm$ 1.09	3.00 $\pm$ 1.19