Supplemental MaterialCBE—Life Sciences Education

Corwin et al.

Appendix A: The LCAS Survey

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Item #	In this course	Never	One or Two Times	Monthly	Weekly	I Don't Know	I Prefer Not to Respond		
C1	I was encouraged to discuss elements of my investigation with classmates or instructors								
C2	I was encouraged to reflect on what I was learning								
С3	I was encouraged to contribute my ideas and suggestions during class discussions								
C4	I was encouraged to help other students collect or analyze data								
C 5	I was encouraged to provide constructive criticism to classmates and								
	challenge each other's interpretations								
C6	I was encouraged to share the problems I encountered during my								
	investigation and seek input on how to address them								
	In this course	Strongly Disagree	Disagree	Somewhat Disagree	Somewhat Agree	Agree	Strongly Agree	I Don't Know	I Prefer Not to Respond
DR1	I was expected to generate novel results that are unknown to the								
	instructor and that could be of interest to the broader scientific								
	community or others outside of class								
DR2	I was expected to conduct an investigation to find something								
	previously unknown to myself, other students, and the instructor								
DR3	I was expected to formulate my own research questions or								
	hypothesis to guide an investigation								
DR4	I was expected to develop new arguments based on data								
DR5	I was expected to explain how my work has resulted in new scientific knowledge								
I1	I was expected to revise or repeat work to account for errors or fix problems								
12	I had time to change the methods of the investigation if it was not								
	unfolding as predicted								
13	I had time to share and compare data with other students								
	I had time to collect and analyze additional data to address new								
14	questions or further test hypotheses that arose during the investigation								
15	I had time to revise or repeat analyses based on feedback								
16	I had time to revise drafts of papers or presentations about my								
	investigation based on feedback								
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