

## **Survey questions for evaluation of the Engage science communication training program**

administered using Google Forms

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- **Student pre-course survey questions**  
items within questions 2–4 were presented in random order
  - **Student post-course survey questions**  
items within questions 2–5 were presented in random order
  - **Alumni survey questions**  
items within questions 2–7 were presented in random order
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## Student pre-course survey questions

*This survey is part of our research study to evaluate the Engage program and learn about the students enrolled in the Engage seminar. Please fill out the anonymous survey no later than January 5<sup>th</sup>. Your participation will allow us to better understand how we might maximize student learning in future years. Results from individual students in this evaluation project will remain anonymous, and all questions are optional so that you need not respond to a question if it makes you uncomfortable in any way. Thanks very much for your help!*

Contact Juliana at [stephj5@uw.edu](mailto:stephj5@uw.edu) if you have any questions.

### 1. Which of the following career directions most interests you?

	Not interesting	Somewhat interesting	Quite interesting	Very interesting
Teaching (K–12)				
Teaching (community college)				
Teaching (university level)				
Science journalism				
Science communication/outreach (government setting)				
Science communication/outreach (e.g., parks, museums, zoos)				
Science advocacy/policy				
Research (university setting)				
Research (government setting)				
Research (industry setting)				

### 1b. (Optional) Enter any other career directions here:

	Not interesting	Somewhat interesting	Quite interesting	Very interesting
Other (from textbox above)				

### 2. How important do you believe the following are for effective presentation to a public audience?

	Not important at all	A little important	Quite important	Very important
Conveying complex ideas simply, directly, clearly, and appropriately for different audiences (e.g. through the use of analogies)				
Tailoring presentations to the needs of specific audiences				
Communicating the “so what” of the research in ways my audience can understand				
Telling an interesting story				
Demonstrating expertise in the field				
Technical graphs and figures that illustrate research findings				

Following the scientific format of Introduction, Methods, Results, Discussion				
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3. How would you rate your current ability to:

	Needs a lot of work	Needs a little work	Pretty good as is	Extremely effective
Convey complex ideas simply, directly, clearly, and appropriately for different audiences				
Take my audience and context into consideration				
Communicate the “so what” of the research in ways my audience can understand				
Tell an interesting story				
Have self-confidence when speaking				
Demonstrate expertise in your field				
Use technical graphs and figures to illustrate research findings				
Follow the scientific format of Introduction, Methods, Results, and Discussion				

4. To what extent do you agree with the following statements?

	Strongly disagree	Somewhat disagree	Somewhat agree	Strongly agree
Communicating my scientific research to the public is important to me				
I am confident in my ability to present material to a public audience				
I am motivated to find opportunities to communicate my science to the public				

5. How did you hear about the Engage program?

- |  |   |
|--|---|
| <input type="checkbox"/> Engage website                            | <input type="checkbox"/> Poster about seminar |
| <input type="checkbox"/> Advertisement for Town Hall talk          | <input type="checkbox"/> Email from a friend  |
| <input type="checkbox"/> Talking with previous Engage participants | <input type="checkbox"/> Other:               |
| <input type="checkbox"/> Email from department                     |   |

6. Please add any additional comments here:

## Student post-course survey questions

*This survey is part of our research study to evaluate the Engage program and learn about the students enrolled in the Engage seminar. Please fill out the anonymous survey no later than May 22nd. Your participation will allow us to better understand how we might maximize student learning in future years. Results from individual students in this evaluation project will remain anonymous, and all questions are optional so that you need not respond to a question if it makes you uncomfortable in any way. Thanks very much for your help!*

Contact Juliana at [stephj5@uw.edu](mailto:stephj5@uw.edu) if you have any questions.

### 1. Which of the following career directions most interests you?

	Not interesting	Somewhat interesting	Quite interesting	Very interesting
Teaching (K–12)				
Teaching (community college)				
Teaching (university level)				
Science journalism				
Science communication/outreach (government setting)				
Science communication/outreach (e.g., parks, museums, zoos)				
Science advocacy/policy				
Research (university setting)				
Research (government setting)				
Research (industry setting)				

### 1b. (Optional) Enter any other career directions here:

	Not interesting	Somewhat interesting	Quite interesting	Very interesting
Other (from textbox above)				

### 2. How important do you believe the following are for effective presentation to a public audience?

	Not important at all	A little important	Quite important	Very important
Conveying complex ideas simply, directly, clearly, and appropriately for different audiences (e.g. through the use of analogies)				
Tailoring presentations to the needs of specific audiences				
Communicating the “so what” of the research in ways my audience can understand				
Telling an interesting story				
Demonstrating expertise in the field				
Technical graphs and figures that illustrate research findings				

Following the scientific format of Introduction, Methods, Results, Discussion				
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3. How would you rate your current ability to:

	Needs a lot of work	Needs a little work	Pretty good as is	Extremely effective
Convey complex ideas simply, directly, clearly, and appropriately for different audiences				
Take my audience and context into consideration				
Communicate the “so what” of the research in ways my audience can understand				
Tell an interesting story				
Have self-confidence when speaking				
Demonstrate expertise in your field				
Use technical graphs and figures to illustrate research findings				
Follow the scientific format of Introduction, Methods, Results, and Discussion				

4. To what extent do you agree with the following statements?

	Strongly disagree	Somewhat disagree	Somewhat agree	Strongly agree
Communicating my scientific research to the public is important to me				
I am confident in my ability to present material to a public audience				
I am motivated to find opportunities to communicate my science to the public				

5. Did your participation in the Engage program increase in any way

	Not at all	A little	Quite a bit	Very much
Your sense of importance of communicating scientific research to the public				
Your confidence in giving talks or presentations to the public				
Your commitment to communicating scientific research to the public				

6. Please add any additional comments here:

It would be helpful for us to know of any other ways Engage has helped you.

## Alumni survey questions

*This survey is part of our research study to evaluate the Engage program and learn about the students who have previously completed the Engage seminar. Please fill out the anonymous survey no later than February 17th. Your participation will allow us to better understand how we might maximize student learning in future years.*

*Please contact Juliana at [stephj5@uw.edu](mailto:stephj5@uw.edu) with any questions or comments about this survey.*

### 1. Which of the following career directions most interests you?

	Not interesting	Somewhat interesting	Quite interesting	Very interesting
Teaching (K–12)				
Teaching (community college)				
Teaching (university level)				
Science journalism				
Science communication/outreach (government setting)				
Science communication/outreach (e.g., parks, museums, zoos)				
Science advocacy/policy				
Research (university setting)				
Research (government setting)				
Research (industry setting)				

### 1b. (Optional) Enter any other career directions here:

	Not interesting	Somewhat interesting	Quite interesting	Very interesting
Other (from textbox above)				

### 2. How important do you believe the following are for effective presentation to a public audience?

	Not important at all	A little important	Quite important	Very important
Conveying complex ideas simply, directly, clearly, and appropriately for different audiences (e.g. through the use of analogies)				
Tailoring presentations to the needs of specific audiences				
Communicating the “so what” of the research in ways my audience can understand				
Telling an interesting story				
Demonstrating expertise in the field				
Technical graphs and figures that illustrate research findings				
Following the scientific format of Introduction, Methods, Results, Discussion				

3. How would you rate your current ability to:

	Needs a lot of work	Needs a little work	Pretty good as is	Extremely effective
Convey complex ideas simply, directly, clearly, and appropriately for different audiences (e.g. through the use of analogies)				
Take my audience and context into consideration				
Communicate the “so what” of the research in ways my audience can understand				
Tell an interesting story				
Have self-confidence when speaking				
Demonstrate expertise in your field				
Use technical graphs and figures to illustrate research findings				
Follow the scientific format of Introduction, Methods, Results, and Discussion				

4. Please rate how much the Engage program advanced your learning in the following areas:

	Not at all	A little	Quite a bit	Very much
Conveying complex ideas simply, directly, clearly, and appropriately for different audiences (e.g. through the use of analogies)				
Taking my audience and context into consideration				
Communicating the “so what” of the research in ways my audience can understand				
Telling an interesting story				
Self-confidence as a speaker				
Demonstrating expertise in your field				
Graphs and figures that illustrate research findings				
Following the scientific format of Introduction, Methods, Results, and Discussion				

5. To what extent, if at all, did your participation in the Engage program make it easier for you to seek out or engage in the following opportunities:

	Not at all	A little	Quite a bit	Very much
Public speaking				
Participation in interdisciplinary collaboration				
Scientific publications				
Other writing ventures				
Public outreach activities				
Job opportunities				

6. As a result of your participation in the Engage program did the following decrease, stay the same, or increase?

	Decrease	Same	Increase
The number of public speaking opportunities you sought out or were invited to participate in			
The number of interdisciplinary collaborations you participated in (or initiated)			
The number of scientific publications you wrote or co-wrote			
Your involvement in other writing ventures			
The public outreach activities you were involved in			
Potential employers that were interested in your work			

7. Did your participation in the Engage program increase in any way:

	Not at all	A little	Quite a bit	Very much
Your sense of importance of communicating scientific research to the public				
Your confidence in giving talks or presentations to the public				
Your commitment to communicating scientific research to the public				

8. What quarter did you take the Engage course?

- Autumn 2010
- Autumn 2011
- Winter 2013
- Winter 2014

9. How did you hear about the Engage program?

- Engage website
- Advertisement for Town Hall talk
- Talking with previous Engage participants
- Email from department
- Poster about seminar
- Email from a friend
- Other:

10. Would you be willing to provide your phone number to answer a few more questions about your experience in the Engage program?

- Yes
- No

10b. (Optional) Phone number:

11. Please provide any additional comments you have about your experience in Engage, suggestions for improvement, or how you have applied your Engage training: