

Student Questionnaire: Posttest

Please use the 7-point scale to indicate your agreement or disagreement with each statement.

BELIEFS		strongly disagree	disagree	neutral	agree	strongly agree	not applicable	don't know
1	Generally, I feel secure about attempting computer science.	1	2	3	4	5	N/A	DK
2	I study computer science because I know how useful it is.	1	2	3	4	5	N/A	DK
3	Knowing computer science will help me earn a living.	1	2	3	4	5	N/A	DK
4	I am sure I can do advanced work in computer science.	1	2	3	4	5	N/A	DK
5	Generally, I feel secure about attempting mathematics.	1	2	3	4	5	N/A	DK
6	I study mathematics because I know how useful it is.	1	2	3	4	5	N/A	DK
7	Knowing mathematics will help me earn a living.	1	2	3	4	5	N/A	DK
8	I am sure I can do advanced work in mathematics.	1	2	3	4	5	N/A	DK
9	Generally, I feel secure about attempting science.	1	2	3	4	5	N/A	DK
10	I study science because I know how useful it is.	1	2	3	4	5	N/A	DK
11	Knowing science will help me earn a living.	1	2	3	4	5	N/A	DK
12	I am sure I can do advanced work in science.	1	2	3	4	5	N/A	DK
13	Generally, I feel secure about attempting computational science.	1	2	3	4	5	N/A	DK
14	I study computational science because I know how useful it is.	1	2	3	4	5	N/A	DK
15	Knowing computational science will help me earn a living.	1	2	3	4	5	N/A	DK
16	I am sure I can do advanced work in computational science.	1	2	3	4	5	N/A	DK
17	I have a good understanding of what computational scientists do.	1	2	3	4	5	N/A	DK

		strongly disagree	disagree	neutral	agree	strongly agree	not applicable	don't know
18	It is clear to me how computational science is connected to other disciplines like math, sciences and computer science.	1	2	3	4	5	N/A	DK
19	Computational science is relevant to real world issues.	1	2	3	4	5	N/A	DK
20	I understand the methods of computational science.	1	2	3	4	5	N/A	DK
21	I enjoy working in groups.	1	2	3	4	5	N/A	DK
22	When I am working in a group, I am comfortable in a leadership role.	1	2	3	4	5	N/A	DK
23	When I am working in a group, I usually participate actively.	1	2	3	4	5	N/A	DK
24	When I am working in a group, I feel that I have important things to say.	1	2	3	4	5	N/A	DK
25	I feel that my contribution to group work is valued by the other members of the group.	1	2	3	4	5	N/A	DK
SKILLS AND ABILITIES								
26	This course helped me gain abilities in giving oral presentations.	1	2	3	4	5	N/A	DK
27	This course helped me gain an understanding of the main concepts of computational science (i.e., math, science, and computing).	1	2	3	4	5	N/A	DK
28	This course focused on answering real world questions	1	2	3	4	5	N/A	DK
29	This course was organized so that we were encouraged to discuss ideas.	1	2	3	4	5	N/A	DK
30	The structure of this course enabled me to discover some of the ideas of computational science for myself.	1	2	3	4	5	N/A	DK
31	This course provided opportunities for me to construct models.	1	2	3	4	5	N/A	DK

LEARNING	<i>strongly disagree</i>	<i>disagree</i>	<i>neutral</i>	<i>agree</i>	<i>strongly agree</i>	not applicable	don't know
32 Student presentations in this course helped my learning.	1	2	3	4	5	N/A	DK
33 Instructor presentations in this course helped my learning.	1	2	3	4	5	N/A	DK
34 Discussions in this class helped my learning.	1	2	3	4	5	N/A	DK
35 Hands-on activities in this class helped my learning.	1	2	3	4	5	N/A	DK
36 Written assignments in this class helped my learning	1	2	3	4	5	N/A	DK
37 Reading materials that the instructor created helped my learning	1	2	3	4	5	N/A	DK
38 Other reading materials helped my learning	1	2	3	4	5	N/A	DK
39 The feedback we got helped my learning	1	2	3	4	5	N/A	DK
40 I understood why we did each module	1	2	3	4	5	N/A	DK
41 I understood most of the ideas presented in this course.	1	2	3	4	5	N/A	DK
42 By the end of this course, I felt able to apply the concepts presented.	1	2	3	4	5	N/A	DK
43 This course helped me get better at seeing alternative approaches to a problem.	1	2	3	4	5	N/A	DK
44 This course helped me feel more comfortable with the idea that some questions have no single right answer.	1	2	3	4	5	N/A	DK
45 I enjoyed taking this computational science course	1	2	3	4	5	N/A	DK

PART 2: Background Information

- 46** What is your age? _____
- 47** Which of the following represents your year in college?
1. First year
 2. Sophomore
 3. Junior
 4. Senior

5. Senior +1
6. Graduate Student
7. Post-professional degree

48 What is your gender?

1. Female
2. Male

49 What is your intended major? (please choose only one)

1. Biology
2. Chemistry
3. Computer science
4. Education
5. Environmental science
6. Finance
7. Geology
8. Mathematics
9. Psychology
10. Physics
11. Other

50 What is the field of your intended career? (please choose only one)

1. Science / Engineering
2. Medical / Dental / Other Health Care
3. Teaching K-12
4. Business / Policy
5. Social sciences
6. Humanities / Arts
7. Undecided/Other

51 How many college computational science courses had you taken before this one?

1. 1 course
2. 2 courses
3. 3 courses
4. 4 or more courses
5. 0 courses

52 How many more computational science courses do you plan to take?

1. 1
2. 2
3. 3
4. 4
5. 5
6. 6 or more
7. 0

53 How many more courses do you plan to take in math and science?

1. 1
2. 2
3. 3
4. 4
5. 5
6. 6 or more
7. 0

54 What are the last 5 digits of your student ID number? _____