

**APPENDIX C: CCTT INSTITUTE PARTICIPANT TELEPHONE SURVEY INSTRUMENT  
(DRAFT—SCIENCE AND MATH FOCUS)**

Introduction and Disclaimer

**SECTION A. DESCRIPTION AND EVALUATION OF WORKSHOP AND FOLLOW-UP  
ACTIVITIES**

First, I'm going to read a list of focus areas of workshops. Please tell me which of these were the major areas of focus of the workshop you attended. Did the workshop you attended focus primarily on content or subject matter, teaching methods, lab techniques, new technologies, and/or issues regarding females and/or minority students? [CIRCLE ALL THAT APPLY].

Content or subject matter [IF R ANSWERS CONTENT OR SUBJECT MATTER, ASK	YES	NO
Did that include incorporating and synthesizing interdisciplinary content?	1	0
Teaching methods	1	0
Lab techniques	1	0
New technologies	1	0
Issues regarding females and/or minority students	1	0

Now, I'd like to ask you about activities you did before, during and after the workshop. I'm going to read a list of possible activities you might have done **before** the workshop, and I'd like you to tell me whether or not you did each one. [READ LIST. CIRCLE ONE ANSWER IN EACH ROW.]

	YES	NO	DK
Did you read any background material, textbooks, or lab manuals?	1	0	9
Did you complete any surveys to assess your skill level, interests teaching responsibilities or objectives?	1	0	9
Did you identify a course or unit you wanted to develop or ways you anticipated incorporating project information at your home institution?	1	0	9
Did you prepare a project/problem to work on during the workshop?	1	0	9
Did you do any other types of activities [before the workshop]?	1	0	9

Now I'm going to read a list of some types of materials that can be used in courses, and I'd like you to tell me whether you worked on developing each of them at the workshop [IF R ASKS, ANSWER regardless of whether you worked on them during workshop sessions or outside of workshop sessions. READ LIST. CIRCLE ON ANSWER IN EACH ROW.]

	YES	NO	DK
Textbooks or written material	1	0	9
Lecture notes or other handouts (e.g.lists of resource)	1	0	9
Problem sets, project descriptions, or lab exercises	1	0	9
Other activities _____		1	0

9

IF R ANSWERED "YES" TO ONE OR MORE ITEMS. ASK

By the close of the workshop, had you completed these materials so that they could actually be used, or did you need to do more work before they could be used? [READ WHATEVER ITEM(S) R ANSWERED "YES" TO AND CIRCLE "9" FOR ANY ITEMS R DID NOT ANSWER "YES" TO]

		Completed	Needed more work	N/A
Textbook(s) or written materials	1	2	9	
Lecture notes or other handouts	1	2	9	
Problem sets, project descriptions, or lab exercises		1	2	9
Other activities _____		1	2	9

During the workshop, did you give any presentations or practice lessons during the workshop

0 No

1 Yes > . How many? \_\_\_\_\_

This next question concerns **follow-up activities**. I'm going to read a list of types of follow-up activities in which you may have participated **after the workshop**, and I'd like you to tell me whether you participated in each type of activity. [READ ITEMS. CIRCLE ONE ANSWER IN EACH ROW.]

	YES	NO	DK
Did you participate in one or more formal follow-up sessions at scheduled times?	1	0	9
Did you participate in one or more informal group get-togethers? 1	0	9	
Did you review or site test any materials or products developed as part of the workshop?	1	0	9
Did you receive any technical assistance from the PI or other project staff? [IF R ASKS, THIS REFERS ONLY TO TECHNICAL ASSISTANCE REGARDING ISSUES RELATED TO THE WORKSHOP]	1	0	9

After the workshop...	YES	NO	DK
Did you communicate with the Facilitator and/or other participants by telephone?	1	0	9
Did you communicate with the Facilitator and/or other participants by e-mail?	1	0	9

[IF R ANSWERED "YES". ASK]

Was this communication ongoing or sporadic? [CIRCLE ONE ANSWER]

1 Ongoing

2 Sporadic

9 Don't recall

## SECTION B. IMPACT

### WHAT PARTICIPANT LEARNED

Next, I'm going to read a list of some types of knowledge and skills. For each item, I'd like you to tell me whether the workshop gave you little or none of that type of skill or knowledge, some of that skill or knowledge, or a lot of that skill or knowledge. [READ ITEMS. CIRCLE ONE ANSWER IN EACH ROW.]

To what extent did the workshop give you...	Little or none	Some	a lot	N/A
Increased content knowledge?	1	2	3	9
New or more in-depth perspectives on teaching and learning?	1	2	3	9
New or improved skills in teaching?	1	2	3	9

New or improved experimental or lab techniques?	1	2	3	9
New or improved technological skills		1	2	3
New or more in-depth knowledge of issues regarding females and minority students		1	2	3
New information about other resources for use in teaching		1	2	3
New contacts with colleagues from other institutions		1	2	3
Increased motivation or stimulation for teaching excellence		1	2	3

Did you get any benefit out of the workshop?

1 Yes . Please describe:

---



---

0 No . Why not?

---



---

[IF R GOT NO BENEFIT OUT OF THE WORKSHOP SKIP THIS SECTION ]

PARTICIPANTS' EVALUATION OF WORTH OF VARIOUS ASPECTS OF WORKSHOP. EXPLANATORY FOR OUTCOMES.

I am going to read a list of workshop features, and I'd like you to tell me how much of a contribution each of the following made to what you got out of the workshop. Please indicate whether each item I read made no contribution to what you got out of the workshop, a small contribution, a moderate contribution, or a great contribution. If the workshop did not include one feature, please indicate that. [READ LIST. CIRCLE ONE ANSWER IN EACH ROW.]

	Little or No	Moderate	Great	N/A
Preparation prior to the workshop	1	2	3	9
Content of the lectures or seminars	1	2	3	9
Study materials used during the session 1		2	3	9
The experience of developing products or materials at the workshop	1	2	3	9
Other hands-on learning activities, such as laboratories or computer work	1	2	3	9
Materials from the workshop that you took back to your institution	1	2	3	9
Presentations or practice lessons that you gave	1	2	3	9
Interactions with the instructors (both structured and unstructured)	1	2	3	9
Discussions of how participants would use what was learned in the workshop in their own courses.	1	2	3	9
Informal interactions with other participants	1	2	3	9

Follow-up activities [formal or informal] 1 2 3 9

**Impact on Curriculum and/or Courses or Units**

During or as a result of the workshop...[ CIRCLE ONE ANSWER FOR EACH ROW.]

		YES	NO	DK
a. Did you develop or redesign a major or a program of studies?	1	0	9	
b. Did you develop one or more new courses or units?				
c. Did you revise one or more existing courses?	1	0	9	
d. Did you develop one or more proposals requesting permission or funding to revise or develop courses/materials/units?	1	0	9	

IF R ANSWERED NO, GO TO NEXT SECTION]

All in all, how many courses or units did you develop and/or revise? \_\_\_\_\_

Did you develop or revise [this course/these courses] in collaboration with one or more colleagues? [CIRCLE ONE ANSWER.]

- 1 Yes
- 0 No

How many of the courses that you [developed/or/revise] were interdisciplinary? \_\_\_\_\_

Was the course that you [developed/revise] BY YOURSELF interdisciplinary?

- 1 Yes
- 0 No

Did [this course/these courses] receive formal departmental and/or program approval? [CIRCLE ONE ANSWER.]

- 1 yes
- 2 Some did and some did not
- 0 No
- 9 N/A

*Now, I'd like to ask you to be more specific about the types of changes you made in your course(s) as a result of your participation in the workshop.*

How important was the change to the course(s)?  
Was it...

- (1) of little or no importance
- (2) of moderate importance
- (3) of major importance

Did you introduce **new** content that you learned at the workshop? 1 Yes > 0 No \_\_\_\_\_ > 1 2  
3

Did you change the content to focus on key issues or "big ideas?" 1 Yes > 0 No \_\_\_\_\_ > 1 2  
3

Did you introduce new experimental techniques or lab techniques that you learned at the workshop? 1 Yes > 0 No \_\_\_\_\_ > 1 2  
3

Did you introduce new equipment, materials or computer software that you learned at the

workshop? 1 Yes > 0 No \_\_\_\_\_ > 1 2 3  
Did you change teaching methods in any other way? 1 Yes > 0 No \_\_\_\_\_ > 1 2 3

Please describe in your own words the changes you made to your classes as a result of your participation in the workshop. [INTV: THIS INCLUDES DESCRIPTION OF NEW CLASSES.]

---

---

---

Have you taught one or more of the courses or units you [developed/(or)/revised] as a result of your participation in the workshop. [CIRCLE ONE ANSWER]

1 Yes > CONTINUE WITH QUESTIONS.  
0 No > SKIP TO NEXT SECTION

How many? \_\_\_\_\_

Have your team taught [this material]?

1 Yes  
0 No

a. In all approximately how many students have completed this material? \_\_\_\_\_

b. Approximately what percentage of these students are female? \_\_\_\_\_%

[IF R NEEDS PROMPTING, SAY Please give us your best estimate]

#### SUSTAINED EFFECTS

If you have taught this course/these units more than once since participating in the workshop, how did what you did as a result of your participation workshop change over time? (INTV PROMPT: FOR EXAMPLE, DID YOU INCREASE OR DECREASE WHAT YOU DID? DID IT BECOME MORE KEY?)

---

---

---

#### BARRIERS TO SUSTAINED EFFECTS

[Is the course/unit] still being offered?

1 Yes

0 No > B16a. Why not?

---

---

---

#### Impact on Students

B17. I'm going to read a list of various types of knowledge and skills. For each item I read, I'd like you to compare the average level of knowledge and skills of students who completed the courses you developed or modified as a result of your participation in the workshop with the knowledge and skills of students who completed similar courses you taught previously. If there is no valid basis for comparison, please indicate that. [INTV: FIRST ASK WHETHER BETTER/WORSE, OR ABOUT THE SAME. THEN, IF R ANSWERS BETTER OR WORSE, ASK "SUBSTANTIALLY, OR SOMEWHAT..."]

- 1=Substantially worse
- 2=Somewhat worse
- 3=No difference
- 4=Somewhat better
- 5=Substantially better
- 9=No valid comparison possible

In-depth knowledge of subject area		1	2	3	4	5	9
Problem solving skills		1	2	3	4	5	9
Communication skills		1	2	3	4	5	9
Ability to apply new knowledge	1	2	3	4	5	9	
Critical thinking skills		1	2	3	4	5	9
Ability to collaborate with others	1	2	3	4	5	9	
Ability to use advanced technology		1	2	3	4	5	9
Understanding of the scientific method	1	2	3	4	5	9	

Please describe in your own words, the impact of the changes you made as a result of your participation in the CCTT Workshop on your students?

---



---



---



---

**Impact on Non-Classroom Activities**

(FOR EACH ITEM, CIRCLE ONE ANSWER IN EACH COLUMN.)

	<u>None</u>	<u>A little</u>	<u>Moderate</u>	<u>Great</u>
a. Have you participated in any further professional development activities or workshops designed to change the content of courses or to improve instruction? 1 Yes > 0 No	1	2	3	4
b. Have you begun any new communication or continued existing communication with experts in one or more disciplines. 1 Yes > 0 No	1	2	3	4

c. Have you established any new research or teaching collaborations with colleagues

1 Yes > 0 No

1 2 3 4

d. Have you attended any professional meetings, seminars, or workshops

1 Yes > 0 No

1 2 3 4

e. Have you delivered one or more papers at a professional meeting

1 Yes > 0 No

1 2 3 4

f. Have you delivered one or more papers at a professional meeting?

1 Yes > 0 No

1 2 3 4

g. Have you made one or more presentations to local campuses or community organizations

1 Yes > 0 No

1 2 3 4

Has your participation at the workshop had any impact on you, your courses, or your labs, other than the things we've just covered?

0 No

1 Yes >

Please tell me about these impacts.

---



---



---



---

### Impact on Broader Community

B21. Have you shared any information or skills you learned in the workshop with colleagues either in your school or in other institutions... [READ LIST. CIRCLE ONE ANSWER IN EACH ROW.]

	YES	NO	DK
Through informal discussions with one or more colleagues?	1	0	9
Through presentations to one or more colleagues/ Through observation of your class or laboratory by one or more colleagues	1	0	9
Through participation in any department or campus committees on curricular change and/or reform?	1	0	9
Through any other activities? (specify), _____	1	0	9

To the best of your knowledge, as a result of what you learned at the UFE workshop, ...[READ LIST. CIRCLE ONE ANSWER IN EACH ROW.]

YES NO DK

Have any of your colleagues modified the content of a course or laboratory?	1	0	9
Have any of your colleagues developed a new course, unit in a course or laboratory?	1	0	9
Have any of your colleagues attended any other CCTT workshops?	1	0	9
Have any of your colleagues made any other changes (specify)	1	0	9

**SECTION C. BARRIERS TO IMPLEMENTATION**

IF R DID NOT DO ANYTHING IN HIS/HER COURSES SKIP TO NEXT SECTION.

We're interested knowing whether you encountered any barriers to implementing what you learned at the UFE workshop. In answering, please include any type of barrier you may have experienced. For instance, barriers might include that you have not taught any courses that relate to the workshop since your participation, that heavy teaching demands have not allowed you to complete revisions of a course, or that you were not able to obtain equipment you needed. Did you encounter any barriers to implementing what you learned at the UFE workshop? [CIRCLE ONE ANSWER.]

0 No

1 Yes > C1a. Please tell me about these barriers.

---



---



---



---

When you attended the workshop, did you **intend** to develop any new courses or modify any existing courses or units? [CIRCLE ONE ANSWER.]

1 = Yes

0 No >

Can you tell me the reasons you did not do this after the workshop?

---



---



---



---



**SECTION D. DEMOGRAPHIC INFORMATION**

At the time you participated in the project, how many years had you been on the faculty of the institution where you were teaching at that time? \_\_\_\_\_ years

Which of the following best describes the school/college/university where you were employed when you attended the UFE project? [READ LIST. CIRCLE ONE ANSWER.]

- 1 High School
- 2 Two-year college
- 3 Four year college
- 4 Comprehensive University
- 5 Doctoral institution
- 6 Other (specify) \_\_\_\_\_

INTV: IS R MALE OR FEMALE? [CIRCLE ONE ANSWER]

- 1 Male
- 2 Female

What is your date of birth? Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

Are you Hispanic or Latino or NOT Hispanic or Latino? [CIRCLE ONE ANSWER]

- 1 Hispanic or Latino
- 0 Not Hispanic or Latino
- 9 DK or Refused

I'm going to read a list of race categories. Please choose one or more categories that best indicate your race. (INT: READ LIST. CIRCLE ALL THAT APPLY)

( 9 REFUSED)

- 1 American Indian or Alaska Native
- 2 Asian
- 3 Black or African American
- 4 Native Hawaiian
- 5 Native Hawaiian or Other Pacific Islander
- 6 Caucasian

What was your citizenship when you participated in the project? Were you a U.S. Citizen or national, a permanent resident, or another type of no-US Citizen (that is, a temporary resident)? [CIRCLE ONE ANSWER.]

- 1 U.S. Citizen or national
- 2 Permanent resident
- 3 Other non-U.S. Citizen (that is, temporary resident)
- 9 Refused

Do you have a hearing impairment, visual impairment, a mobility/orthopedic impairment, and/or some other type of disability? [CIRCLE ALL THAT APPLY.]

- 1 Hearing impairment
- 2 Visual impairment
- 3 Mobility/Orthopedic Impairment
- 4 Other (specify) \_\_\_\_\_
- 5 None
- 9 Refused

INTV Those are all of my questions. Would you like to add any other comments regarding your experiences at the workshop or the impact of the program on your teaching or your students' learning?

INTV: END INTERVIEW BY SAYING: Thank you very much for completing this interview.  
DO YOU HAVE ANY OTHER COMMENTS OF SUGGESTIONS ABOUT THE CCTT CURRICULUM DEVELOPMENT PROCESS OR YOU EXPERIENCE(S) PRIOR TO, DURING, OR AFTER THE INSTITUTE?

Thank you for your help!

