**Pre-Systems Map Survey**

**Introduction to Survey**

Welcome to the Socio-Environmental Synthesis (SES) Teaching Study Student Survey! This survey serves two purposes. First, it will help your professor(s) fine-tune the SES module for your class. Second, your responses will be part of our research into how students learn to do SES, and how we might best teach it. The survey should take about 30 minutes to complete.

1. Confidentiality Notice

Your professor is part of the Socio-Environmental Synthesis (SES) Teaching Study, a research project that is taking place at a number of colleges and universities, As part of this research project, we will be collecting data from you with assignments such as this one.

Your responses will be held in confidence. Only your professor(s) will know your identify. Before sharing any of your responses with the other researchers in the study, your name will be replaced with a unique Identifying code. In this way, the data will be completely confidential beyond your professor(s). Your name will not be published in association with any specific comment or information you give.

Please type your initials to indicate that you read and understand the confidentiality conditions of this survey. Thank you.

2. Please indicate if you give your consent to use your data in our research (such as your responses to the questions on this survey). If you choose not to participate, none of your responses will be shared with the other researchers in the project, nor will they be used in the research and any publications or presentations that result.

⃝ Yes, I consent to be a part of the research

⃝ No, I do not consent to be a part of the research

3. Skills and Interest

Please rate your agreement or disagreement with each of the following phrases completing the sentence that starts, “I really enjoy…" *(1 strongly disagree, 2 disagree, 3 neutral, 4 agree, 5 strongly agree)*

1 2 3 4 5

a) Gathering information from different fields like Environmental Science 0 0 0 0 0

b) Coming up with my own answers to compliance questions 0 0 0 0 0

c) Evaluating and criticizing arguments I hear or read using evidence and reasoning 0 0 0 0 0

d) Working with large datasets with lots of variables 0 0 0 0 0

e) Trying to combine information from different fields into single argument 0 0 0 0 0

f) Approaching a complicated problem by figuring out what I already know

about the subject 0 0 0 0 0

For the same skills as in question 1, please rate your agreement or disagreement with each of the following phrases completing the sentence “I think … is really important to be able to do"

*(1 strongly disagree, 2 disagree, 3 neutral, 4 agree, 5 strongly agree)* 1 2 3 4 5

a) Gathering information from different fields like Environmental Science 0 0 0 0 0

b) Coming up with my own answers to compliance questions 0 0 0 0 0

c) Evaluating and criticizing arguments I hear or read using evidence and reasoning 0 0 0 0 0

d) Working with large datasets with lots of variables 0 0 0 0 0

e) Trying to combine information from different fields into single argument 0 0 0 0 0

f) Approaching a complicated problem by figuring out what I already know 0 0 0 0 0

Please rate your agreement or disagreement with each of the following five phrases completing the sentence that starts, "Most issues involving the socio-environmental problems can be better understood with information from ….” *(1 strongly disagree, 2 disagree, 3 neutral, 4 agree, 5 strongly agree)*

1 2 3 4 5

a) Environmental Science 0 0 0 0 0

Please explain your answer with examples

b) Economics 0 0 0 0 0

Please explain your answer with examples

c) Politics, Policy studies and Decision science 0 0 0 0 0

Please explain your answer with examples

d) Anthropology and Ethnography 0 0 0 0 0

Please explain your answer with examples

e) Ethics 0 0 0 0 0

Please explain your answer with examples

Please rate your agreement or disagreement with each phrase, completing the sentence that starts, "I really value ...

*(1 strongly disagree, 2 disagree, 3 neutral, 4 agree, 5 strongly agree)* 1 2 3 4 5

a) Working in groups because they are productive 0 0 0 0 0

b) Working in a group with different majors 0 0 0 0 0

c) Getting other peoples’ perspectives 0 0 0 0 0

d) Working with others to fill in gaps in my own knowledge 0 0 0 0 0

e) Working on my own because it is more productive 0 0 0 0 0

Please rate your agreement or disagreement with each statement.

*(1 strongly disagree, 2 disagree, 3 neutral, 4 agree, 5 strongly agree)* 1 2 3 4 5

a) Importance of approaching a problem by figuring out the system behind the problem0 0 0 0 0

b) I understand what it means to understand something as a system 0 0 0 0 0

c) I believe a system helps to visualize a problem better 0 0 0 0 0

d) Using multiple ways to visualize a complex problem 0 0 0 0 0

Please rate your agreement or disagreement with each statement, The term ''values" as used here includes one's beliefs, Ideals, or sense of what "ought or "should be."

*(1 strongly disagree, 2 disagree, 3 neutral, 4 agree, 5 strongly agree)* 1 2 3 4 5

a) Importance of understanding place values 0 0 0 0 0

b) Values don’t belong or fit in science classroom 0 0 0 0 0

c) In most issues, there is only one correct ethical stance 0 0 0 0 0

d) Using multiple ways to visualize a complex problem 0 0 0 0 0

e) Many sets of values can be involved in socio-economic issues 0 0 0 0 0

f) We can think rigorously to better understand them 0 0 0 0 0

g) Science can’t be made useful unless values are taken into account 0 0 0 0 0

4. Attitudes about Science, Scholarship and Society

*(1 strongly disagree, 2 disagree, 3 neutral, 4 agree, 5 strongly agree)* 1 2 3 4 5

a) Good scholars are totally objective 0 0 0 0 0

b) Scholarly research is a quest for absolute truth 0 0 0 0 0

c) Coming up with hypothesis requires creative thinking 0 0 0 0 0

d) In controversial issues, all opinions are equal 0 0 0 0 0

e) Scientists have a responsibility to communicate their research 0 0 0 0 0

f) Research must be relevant to the society 0 0 0 0 0

g) Research is a social process influenced by social forces 0 0 0 0 0

h) Scientists create knowledge but it is up to others to act on the knowledge 0 0 0 0 0

Please indicate the degree to which you agree or disagree

*(1 strongly disagree, 2 disagree, 3 neutral, 4 agree, 5 strongly agree)* 1 2 3 4 5

a) I like environmental Sciences 0 0 0 0 0

b) I like Economics, Sociology, policy and politics 0 0 0 0 0

c) I like anthropology, culture studies and ethnography 0 0 0 0 0

Please briefly explain your answers

5. Student Information – The last page

Name or identifying code

Please mark the university you are enrolled at

⃝ Gallaudet

⃝ Coppin

⃝ Widener

⃝ Maryland

⃝ Washington State

Please indicate your year in College

⃝ First year

⃝ Second year

⃝ Third year

⃝ Fourth year

⃝ Other

If other, explain

What is your major at this time?

Presently enrolled in which course?

1 2 3 4 5

How confident are you that this will be your major 0 0 0 0 0

<10min 10-15 16-20 min >20min

How long did it take you to complete the survey? 0 0 0 0