S1 Appendix: Questionnaire

Note: This is a reduced questionnaire that includes only the questions used for the present study, as they were phrased in the January 25, 2021 version used for data collection. For the full, final questionnaire, please visit: https://scholarworks.wmich.edu/instruments_teaching/

For this survey, we will be asking questions regarding one of your online STEM courses. Please reference only one course while completing this survey, such as the most recent online STEM course you taught.

Please provide the following course information:

Course Name: ________________________________
Course Number (e.g., BIO 101): ____________________
Department: ___________________________________
Total Number of Students: _________
How many times have you taught this course online? _________________

Do you assign discussion forums? For example, student-to-student discussions to further understanding of course topics.
   ○ No
   ○ Yes

Do you contribute, other than an initial prompting question, in your discussion forums for [COURSE NAME]? [This question was only presented to those who did not select “no” as their response for whether they assign discussion forums.]
   ○ No
   ○ Yes

Please describe how often you contribute to discussion forums for the following reasons. [This question was only presented to those who did not select “no” as their response for whether they contribute to discussion forums.]

|                                | Never | Rarely | Sometimes | Often | Always |
|--------------------------------|-------|--------|-----------|-------|--------|
| Adding information to a discussion (e.g., providing additional resources in a discussion thread) |       |        |           |       |        |
| Building a consensus to a discussion (e.g., clarifying discussions in order to emphasize a common theme) |       |        |           |       |        |
| Summarizing a discussion (e.g., combining discussion components into a concise description) |       |        |           |       |        |
| Diagnosing misconceptions within a discussion (e.g., identifying where students are mistaken within a thread) |       |        |           |       |        |
| Providing encouragement within a discussion (e.g., expressing recognition or appreciation of contributions of students) |       |        |           |       |        |
| Identifying and clarifying areas of agreement and disagreement on course topics to help students learn |       |        |           |       |        |
| Guiding the class towards understanding course topics in a way to help the student clarify their thinking | ○ | ○ | ○ | ○ | ○ |
| Keeping students engaged and participating in productive dialogue | ○ | ○ | ○ | ○ | ○ |
| Keeping students on task | ○ | ○ | ○ | ○ | ○ |
| Encouraging course participants to explore new concepts associated with the course | ○ | ○ | ○ | ○ | ○ |
| Reinforcing the development of a sense of community among course participants | ○ | ○ | ○ | ○ | ○ |
| Focusing the discussion back to relevant issues to help student learning | ○ | ○ | ○ | ○ | ○ |

What is your primary appointment type?
- ○ Tenured
- ○ Tenure-track
- ○ Term
- ○ Part-time
- ○ Teaching Assistant
- ○ Other: ____________

How many years have you been teaching?
_____________________________________________________________________

How many years have you been teaching online?
_____________________________________________________________________

How do you describe you gender identity. (Please select all that apply)
- ☐ Female
- ☐ Male
- ☐ Genderqueer
- ☐ Agender
- ☐ Non-binary
- ☐ Transgender
- ☐ Cisgender
- ☐ A gender not listed (please specify): ____________

Within which racial and ethnic group(s) do you identify? (Please select all that apply)
- ☐ American Indian / Native American
- ☐ Asian
- ☐ Black or African American
- ☐ Hispanic, Latino, or Spanish origin
- ☐ Middle Eastern or North African
- ☐ Native Hawaiian or Other Pacific Islander
- ☐ White
- ☐ Another race or ethnicity not listed above (Please specify): ____________

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