

Appendix B
Competency Skills

For the area below, please specify your competency level before beginning the online GEOL 130 course and your competency level **as a result of your participation**. If the competency level is not part of the course, please mark Not Applicable (N/A) and go to the next section.

Areas		Beginning Competency Level						Current Competency Level				
		Low			High			Low			High	
Content												
1. Understanding of content	N/A	1	2	3	4	5	N/A	1	2	3	4	5
2. Understanding of NC SCOS competencies	N/A	1	2	3	4	5	N/A	1	2	3	4	5
3. Understanding of science process skills	N/A	1	2	3	4	5	N/A	1	2	3	4	5
4. Ability to plan outdoor science activities	N/A	1	2	3	4	5	N/A	1	2	3	4	5
5. Ability to conduct outdoor science activities	N/A	1	2	3	4	5	N/A	1	2	3	4	5
6. Ability to plan indoor/classroom /hands-on science activities	N/A	1	2	3	4	5	N/A	1	2	3	4	5
7. Ability to conduct indoor/classroom /hands-on science activities	N/A	1	2	3	4	5	N/A	1	2	3	4	5
8. Use of web-based instruction to understand science content	N/A	1	2	3	4	5	N/A	1	2	3	4	5
Pedagogy												
1. Ability to use conceptual questions and class objectives at the beginning of instruction	N/A	1	2	3	4	5	N/A	1	2	3	4	5
2. Ability to use conceptual questions, objectives, and key terms at the end of instruction	N/A	1	2	3	4	5	N/A	1	2	3	4	5
3. Ability to use graphic organizers (e.g., flow charts or concept maps) to enhance content learning	N/A	1	2	3	4	5	N/A	1	2	3	4	5
4. Ability to use visual image reminders	N/A	1	2	3	4	5	N/A	1	2	3	4	5
5. Ability to use websites	N/A	1	2	3	4	5	N/A	1	2	3	4	5
6. Ability to use daily brief assessments for immediate review	N/A	1	2	3	4	5	N/A	1	2	3	4	5
Technology												
1. Ability to use the Internet	N/A	1	2	3	4	5	N/A	1	2	3	4	5
2. Ability to access online resources	N/A	1	2	3	4	5	N/A	1	2	3	4	5
3. Ability to communicate	N/A	1	2	3	4	5	N/A	1	2	3	4	5

electronically with the instructor												
4. Ability to communicate electronically with peers	N/A	1	2	3	4	5	N/A	1	2	3	4	5
5. Ability to communicate knowledge	N/A	1	2	3	4	5	N/A	1	2	3	4	5
6. Comfort level for learning online	N/A	1	2	3	4	5	N/A	1	2	3	4	5
7. Comfort level for using the computer	N/A	1	2	3	4	5	N/A	1	2	3	4	5

In the space provided below, please respond to the following open-ended questions with specific examples. If you need more room, please continue on a separate sheet of paper.

1. What aspects of scientific knowledge (e.g., facts, concepts, process skills) can be taught online?
2. What aspects of scientific knowledge can be learned online?
3. In what ways would you change the course to improve it? (e.g., personal contact, activities)
4. How would the online learning of science knowledge be enhanced through hands-on activities?