

**Iowa State University – Department of Geological and Atmospheric Sciences**  
**Senior Survey and Self-assessment**

*Please indicate the extent to which you agree or disagree with each statement by filling in the appropriate number on the answer sheet. **Please DO NOT enter your name – the survey is anonymous.***

	Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
1. More computer application work should be required of students in more geology/meteorology courses.	1	2	3	4	5
2. More training in statistics and data analysis should be required in my major.	1	2	3	4	5
3. More courses should be offered at the 400 level.	1	2	3	4	5
4. There was sufficient flexibility in my degree program to enable me to take the elective courses that I wanted to take.	1	2	3	4	5
5. The majority of upper-level courses (300 and 400 level) should include more practical applications.	1	2	3	4	5
6. More geology/meteorology courses should be taught with a lab or recitation section rather than just lecture sections.	1	2	3	4	5
7. All students in my degree program should be required to take a class that helps them with the job search process (i.e. interviewing, letter writing, resume preparation, etc.).	1	2	3	4	5
8. All students in my degree program should be required to complete a professional, supervised work experience prior to graduating.	1	2	3	4	5
9. All students in my degree program should be required to study abroad or take a travel course.	1	2	3	4	5
10. The quality of advising that I have received from advisors in the geology and atmospheric sciences department has been satisfactory.	1	2	3	4	5
11. The weekly departmental e-mail newsletters were useful and informative	1	2	3	4	5
12. The education offered in Geology/Meteorology courses in the department has generally been high quality.	1	2	3	4	5
13. My degree has helped to prepare me for employment following graduation.	1	2	3	4	5
14. The quality of the computer and lab equipment provided by the department during my studies was satisfactory.	1	2	3	4	5
15. The specimen/weather data material available to students was of good quality.	1	2	3	4	5
16. Faculty in the department were accessible and easy to talk to.	1	2	3	4	5
17. The departmental teaching facilities were adequate.	1	2	3	4	5

*The following questions are designed to determine your perception of your ability to perform various tasks at the present time. Answer as honestly as possible. Remember, it is **not** expected that you will respond excellent to many or all of these questions. Please read each statement carefully. Use the scale to rate, in your opinion, your ability to perform each given task. Record your responses on the answer sheet provided.*

Rate your ability to:

	Excellent	Very Good	Fair	Poor	Very Poor
18. Write clearly and effectively.	5	4	3	2	1
19. Speak in front of a group in a clear and persuasive manner.	5	4	3	2	1
20. Extemporaneously answer oral and written questions.	5	4	3	2	1
21. Prepare visuals and deliver information to audiences of professionals as well as the general public.	5	4	3	2	1
22. Work effectively in a team or group situation in defining and solving problems.	5	4	3	2	1
23. Understand the importance of humane and ethical dimensions of complex problems.	5	4	3	2	1
24. Obtain, summarize, analyze, and interpret research data.	5	4	3	2	1
25. Understand and use the scientific decision making process.	5	4	3	2	1
26. Establish priorities and complete tasks in a timely fashion.	5	4	3	2	1
27. Appreciate and respect the role of cultural diversity, humanities and arts, as well as democratic ideas and ideals in our society.	5	4	3	2	1
28. Accept and respect the opinions and beliefs of others.	5	4	3	2	1
29. Understand the basic economic and social aspects of human interaction.	5	4	3	2	1
30. Demonstrate effective interpersonal skills.	5	4	3	2	1
31. Understand and have confidence in yourself.	5	4	3	2	1
32. Understand and appreciate global/international aspects of human relations.	5	4	3	2	1
33. Use basic word processing, spreadsheet, database, and presentation software.	5	4	3	2	1
34. Calculate statistical measures such as averages, standard deviations, and expected values.	5	4	3	2	1
35. Understand and remember most of what you read.	5	4	3	2	1
36. Listen effectively so as to understand and remember most of what you hear.	5	4	3	2	1
37. Determine if a statement depends on any assumptions.	5	4	3	2	1
38. Develop personal as well as business goals and plans to achieve those goals.	5	4	3	2	1
39. Explain the basic concepts of the field of the discipline to non-experts.	5	4	3	2	1
40. Understand and critically evaluate relevant professional literature.	5	4	3	2	1
41. Use a computer to organize and analyze information	5	4	3	2	1

	effectively.					
42.	Obtain meaningful, desired employment, both temporary and permanent.	5	4	3	2	1
43.	Successfully pursue advanced study.	5	4	3	2	1
44.	Succeed in your preferred career or profession.	5	4	3	2	1
45.	Understand technology issues and related impacts.	5	4	3	2	1
46.	Understand changes in environmental quality and related impacts.	5	4	3	2	1
47.	Be a leader.	5	4	3	2	1
48.	Think critically.	5	4	3	2	1
49.	Be able to work effectively in a team environment.	5	4	3	2	1
50.	Feel comfortable using tools from chemistry, physics, biology, mathematics, and computing to solve discipline-specific problems.	5	4	3	2	1
51.	Distinguish facts from opinions.	5	4	3	2	1
52.	Understand scientific principles and their application to scientific inquiry and to societal concerns.	5	4	3	2	1
53.	(For meteorology majors) Issue an accurate 1-2 day forecast.	5	4	3	2	1
54.	Use with competence appropriate techniques and field methods.	5	4	3	2	1

### Background information

55. You came to ISU as a:  
 A. New freshman  
 B. Transfer student from another college or university
56. Your gender is:  
 A. Male  
 B. Female
57. Your age is:  
 A.  $\leq 19$   
 B. 20-24  
 C.  $\geq 25$
58. Your high school rank was:  
 A. Top 10%  
 B. Top 20%  
 C. Top 50%  
 D. Bottom 50%
59. Your major in our department is:  
 A. Geology/Earth Science  
 B. Meteorology
60. I am graduating with at least one minor.  
 A. yes  
 B. no
61. I also have a major (either primary or secondary) this is offered by a department other than Geo/Meteor.

- A. yes
- B. no

62. My current job status after graduation is:
- A. I have accepted a job offer from a firm or governmental agency
  - B. I'm deciding from among job offers that I've received
  - C. I'm still seeking job offers
  - D. I'm planning on continuing my education
  - E. I will be self employed

63. My cumulative GPA currently is:
- A. < 2.50
  - B. 2.50 – 2.99
  - C. 3.00 – 3.49
  - D. 3.50 – 4.00

64. On average, during my enrollment as an undergraduate student at ISU I spent approximately the following number of hours per week working at a job(s) (exclude work time spent studying):
- A. none
  - B. 1-9
  - C. 10-19
  - D. 20-29
  - E. 30 or more

***IF YOU ARE A GEOLOGY/EARTH SCIENCE MAJOR, PLEASE ANSWER # 67-68:***

- |  | Strongly<br>Disagree | Disagree | No<br>Opinion | Agree | Strongly<br>Agree |
|--|----------------------|----------|---------------|-------|-------------------|
| 65. The field courses and field camp should include more practical applications. | 1                    | 2        | 3             | 4     | 5                 |
| 66. My major is:   |                      |          |               |       |                   |
| A. BS in Geology (Option A)  |                      |          |               |       |                   |
| B. BS in Geology with environmental/hydro emphasis (B)                           |                      |          |               |       |                   |
| C. BS in Earth Science   |                      |          |               |       |                   |
| D. BA in Earth Science   |                      |          |               |       |                   |

***IF YOU ARE A METEOR MAJOR, PLEASE ANSWER #69-71:***

- |   | Strongly<br>Disagree | Disagree | No<br>Opinion | Agree | Strongly<br>Agree |
|---|----------------------|----------|---------------|-------|-------------------|
| 67. The senior thesis was a very useful professional experience.  | 1                    | 2        | 3             | 4     | 5                 |
| 68. More math, communications and meteorology courses and fewer general ed courses should be required.                            | 1                    | 2        | 3             | 4     | 5                 |
| 69. Requiring students in the senior thesis course (499) to attend the seminar series helped my general meteorological education. | 1                    | 2        | 3             | 4     | 5                 |

*Revised Fall 2004*