

Report

received
10/25/06



ASSESSMENT REPORT FOR Earth Science Education Bachelor's

(Instructional Degree Program)
2005-2006

(Degree Level)
Oct 24, 2006

(Assessment Period Covered)

(Date Submitted)

Intended Educational (Student) Outcome:

Note: There should be one form C for each intended outcome listed on form B. The intended outcome should be restated in the box immediately below and the intended outcome number entered in the blank spaces.

Technical knowledge of their major field

First Means of Assessment for Outcome Identified Above:

____ a. Means of Program Assessment & Criteria for Success:

The graduate survey (see Attachment 1) was distributed to graduates of the program from 2005. The program is considered to be successful in terms of technical knowledge if the related questions on the survey receive an average score of at least 3.5 (out of a possible 4).

____ a. Summary of Assessment Data Collected:

The score for technical knowledge was 4.0 from the one graduate that responded to the survey. This is considered to indicate success in terms of developing technical knowledge.

____ a. Use of Results to Improve Instructional Program:

Even though this was a favorable result, it should not be given too much weight since only one student responded. We will continue to survey our graduates to assess the success of our program.

Second Means of Assessment for Outcome Identified Above:

____ b. Means of Program Assessment & Criteria for Success:

The graduate supervisor survey (see Attachment 2) was distributed to supervisors of employees that had graduated from the program within the previous 12 months. The program is considered to be successful in terms of technical knowledge if the related questions on the survey receive an average score of at least 3.5 (out of a possible 4).

____ b. Summary of Assessment Data Collected:

The score for technical knowledge was 4.0 from the two supervisors that responded to the survey. This is considered to indicate success in terms of developing technical knowledge.

____ b. Use of Results to Improve Instructional Program:

Even though this was a favorable result, it should not be given too much weight since only two supervisors responded. We will continue to survey our graduates to assess the success of our program.



Utah Valley
State College

ASSESSMENT REPORT FOR

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Intended Educational (Student) Outcome:

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_____ Skill with oral and written communication

First Means of Assessment for Outcome Identified Above:

_____ a. Means of Program Assessment & Criteria for Success:

The graduate survey (see Attachment 1) was distributed to graduates of the program from the previous 12 months. The program is considered to be successful in terms of skill with oral and written communication if the related questions on the survey receive an average score of at least 3.5(out of a possible 4).

_____ a. Summary of Assessment Data Collected:

The score from the one graduate that responded to the survey was 4.0 for both oral and written communication. This is considered to indicate success in terms of developing technical knowledge.

_____ a. Use of Results to Improve Instructional Program:

For years we have made it a priority to develop skills in oral and written communication. We require writing and oral presentations in nearly every one of our upper-division courses. Even though only one graduate responded, these results indicate that our efforts have been successful, and that we should continue the efforts.

Second Means of Assessment for Outcome Identified Above:

_____ b. Means of Program Assessment & Criteria for Success:

The graduate supervisor survey (see Attachment 2) was distributed to supervisors of employees that had graduated from the program within the previous 12 months. The program is considered to be successful in terms of skill with oral and written communication if the related questions on the survey receive an average score of at least 3.5 (out of a possible 4).

_____ b. Summary of Assessment Data Collected:

The average response from supervisors was 4.0 for writing ability and 3.5 for oral communications. This is adequate according to our criteria. The only supervisor comment regarding writing and oral presentations noted that one of our graduates writes well and has potential to become a successful oral communicator.

_____ b. Use of Results to Improve Instructional Program:

We will continue to emphasize development of writing and speaking skills in our classes.



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Intended Educational (Student) Outcome:

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Skill with problem solving and reasoning

First Means of Assessment for Outcome Identified Above:

____ a. Means of Program Assessment & Criteria for Success:

The graduate survey (see Attachment 1) was distributed to graduates of the program from the previous 12 months. The program is considered to be successful in terms of skill with problem solving and reasoning if the related questions on the survey receive an average score of at least 3.5 (out of a possible 4).

____ a. Summary of Assessment Data Collected:

The score for problem solving and reasoning was 3.0 from the one graduate that responded to the survey. This indicates a need to improve the development of problem solving and reasoning skills among our Earth Science Education students.

____ a. Use of Results to Improve Instructional Program:

We will continue to develop class assignments that develop problem solving and reasoning skills. In the past two years, we have made an effort to better develop problem solving and reasoning skills among our students. We will interview our graduates to get their ideas about how to better develop these skills.

Second Means of Assessment for Outcome Identified Above:

____ b. Means of Program Assessment & Criteria for Success:

The graduate supervisor survey (see Attachment 2) was distributed to supervisors of employees that had graduated from the program within the previous 12 months. The program is considered to be successful in terms of skill with problem solving and reasoning if the related questions on the survey receive an average score of at least 3.5 (out of a possible 4).

____ b. Summary of Assessment Data Collected:

The average response from supervisors was 4.0. This is adequate according to our criteria.

____ b. Use of Results to Improve Instructional Program:

We will continue to develop class assignments that develop problem solving and reasoning skills.



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Intended Educational (Student) Outcome:

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Knowledge of applicable laws and regulations

First Means of Assessment for Outcome Identified Above:

____ a. Means of Program Assessment & Criteria for Success:

The graduate survey (see Attachment 1) was distributed to graduates of the program from the previous 12 months. The program is considered to be successful in terms of knowledge of applicable laws and regulations if the related questions on the survey receive an average score of at least 3.5 (out of a possible 4).

____ a. Summary of Assessment Data Collected:

The score for knowledge of applicable laws and regulations was 4.0 from the one graduate that responded to the survey. This is considered to indicate success in terms of developing knowledge of applicable laws and regulations.

____ a. Use of Results to Improve Instructional Program:

Even though this was a favorable result, it should not be given too much weight since only one student responded. We will continue to survey our graduates to assess the success of our program.

Second Means of Assessment for Outcome Identified Above:

____ b. Means of Program Assessment & Criteria for Success:

The graduate supervisor survey (see Attachment 2) was distributed to supervisors of employees that had graduated from the program within the previous 12 months. The program is considered to be successful in terms of applicable laws and regulations if the related questions on the survey receive an average score of at least 3.5 (out of a possible 4).

____ b. Summary of Assessment Data Collected:

The average response from supervisors was 3.0. This is inadequate according to our criteria.

____ b. Use of Results to Improve Instructional Program:

We will seek additional information from our graduates about how to improve our graduates' knowledge of laws and regulations. We will review our curriculum and make adjustments as deemed necessary.



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Intended Educational (Student) Outcome:

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_____ Knowledge of professional options and responsibilities

First Means of Assessment for Outcome Identified Above:

_____ a. Means of Program Assessment & Criteria for Success:

The graduate survey (see Attachment 1) was distributed to graduates of the program from the previous 12 months. The program is considered to be successful in terms of knowledge of professional options and responsibilities if the related questions on the survey receive an average score of at least 3.5 (out of a possible 4).

_____ a. Summary of Assessment Data Collected:

The score for knowledge of professional options and responsibilities was 4.0 from the one graduate that responded to the survey. This is considered to indicate success in terms of developing knowledge of professional options and responsibilities.

_____ a. Use of Results to Improve Instructional Program:

Even though this was a favorable result, it should not be given too much weight since only one student responded. We will continue to survey our graduates to assess the success of our program.

Second Means of Assessment for Outcome Identified Above:

_____ b. Means of Program Assessment & Criteria for Success:

The graduate survey (see Attachment 1) will be distributed to all graduates of the program from the previous 12 months. We will consider our program to be successful in terms of knowledge of professional options and responsibilities if the related questions on the survey receive an average score of at least 3.5 (out of a possible 4).

_____ b. Summary of Assessment Data Collected:

The average response from supervisors was 3.5. This is barely adequate according to our criteria.

_____ b. Use of Results to Improve Instructional Program:

We will seek additional information from our graduates about how to improve our graduates' knowledge of professional options and responsibilities. We will review our curriculum and make adjustments as deemed necessary.

Summary of 2005-2006 Assessment of the Bachelor of Science in Earth Science Education

The 2005-2006 outcomes assessment for the Bachelor of Science in Earth Science Education indicated that the program is generally successful, through there is still room for improvement. Following are the steps we will take during fall 2006 and spring 2007 in order to address the shortcomings indicated by this assessment:

1. Interview recent graduates and their supervisors to learn more about specific areas in which our graduates were ill-prepared in terms of knowledge of applicable laws and regulations. We will make adjustments to appropriate courses based on these interviews.
2. Interview recent graduates and their supervisors to learn more about specific areas in which our graduates were ill-prepared in terms of knowledge of professional options and responsibilities. We will make adjustments to appropriate courses based on these interviews.

Attachment 1: Graduate Survey Letter

**UVSC Department of Earth Science
Graduate Questionnaire: Bachelor of Science in Earth Science**

Name: _____ Phone #: _____

Address: _____

email: _____ Today's date: _____

- 1) When did you graduate? _____
- 2) Upon graduation, which of the following did you do? (check all that apply)
 Apply for graduate programs related to earth science and/or education.
 Apply for other graduate programs.
 Seek employment related to earth science.
 Seek employment not related to earth science.
 Other - please specify: _____
- 3) Which of the following best describes your position now? (check one)
 Attending a graduate program related to earth science.
Please specify _____
 Attending another type of graduate program
Please specify _____
 Employed in a field related to earth science.
Please specify _____
 Employed in a field not related to earth science.
Please specify _____
 Other - please specify: _____
- 4) Is your current position your first choice? _____. If not, what was your first choice and why. do you feel, you were not successful?

- 5) On a scale of 1 to 4, how well did your education provide you with the technical knowledge required for your current position? (circle one)

1	2	3	4	NA
very poorly	somewhat poorly	somewhat well	very well	my current position does not require technical knowledge

Comments related to technical knowledge:

- 6) On a scale of 1 to 4, how well did your education provide you with the field skills required for your current position? (circle one)

1	2	3	4	NA
very poorly	somewhat poorly	somewhat well	very well	my current position does not require field skills

Comments related to field skills:

- 7) On a scale of 1 to 4, how well did your education provide you with the writing ability required for your current position? (circle one)

1	2	3	4	NA
very poorly	somewhat poorly	somewhat well	very well	my current position does not require writing ability

Comments related to writing ability:

- 8) On a scale of 1 to 4, how well did your education provide you with the oral presentation skills required for your current position? (circle one)

1	2	3	4	NA
very poorly	somewhat poorly	somewhat well	very well	my current position does not require oral presentation skills

Comments related to oral presentation skills:

9) On a scale of 1 to 4, how well did your education provide you with the problem solving and reasoning skills required for your current position? (circle one)

1	2	3	4	NA
very poorly	somewhat poorly	somewhat well	very well	my current position does not require problem solving and reasoning skills

Comments related to problem solving and reasoning skills:

10) On a scale of 1 to 4, how well did your education provide you with the knowledge of applicable agencies, laws, and regulations required for your current position? (circle one)

1	2	3	4	NA
very poorly	somewhat poorly	somewhat well	very well	my current position does not require knowledge of applicable agencies, laws, and regulations

Comments related to knowledge of applicable agencies, laws, and regulations:

11) On a scale of 1 to 4, how well did your education provide you with the knowledge of professional options and responsibilities related to your current position? (circle one)

1	2	3	4	NA
very poorly	somewhat poorly	somewhat well	very well	my current position does not require knowledge of professional options and responsibilities

Comments related to knowledge of professional options and responsibilities:

Any other comments you care to make regarding the Department of Earth Science at UVSC:

Attachment 2: Graduate Supervisor Survey Letter

Employee's Name: _____

Your Name: _____ Phone #: _____

Address: _____

Your email: _____ Today's date: _____

How long has this person worked for you? _____

Briefly describe this person's position:

1) On a scale of 1 to 4, how well prepared was this person in terms of his/her technical knowledge required for this position? (circle one)

1	2	3	4	NA
very	somewhat	somewhat	very	this position does
poorly	poorly	well	well	not require technical knowledge

Comments related to technical knowledge:

2) On a scale of 1 to 4, how well prepared was this person in terms of his/her field skills required for this position? (circle one)

1	2	3	4	NA
very	somewhat	somewhat	very	this position does
poorly	poorly	well	well	not require field skills

Comments related to field skills:

3) On a scale of 1 to 4, how well prepared was this person in terms of his/her writing ability required for this position? (circle one)

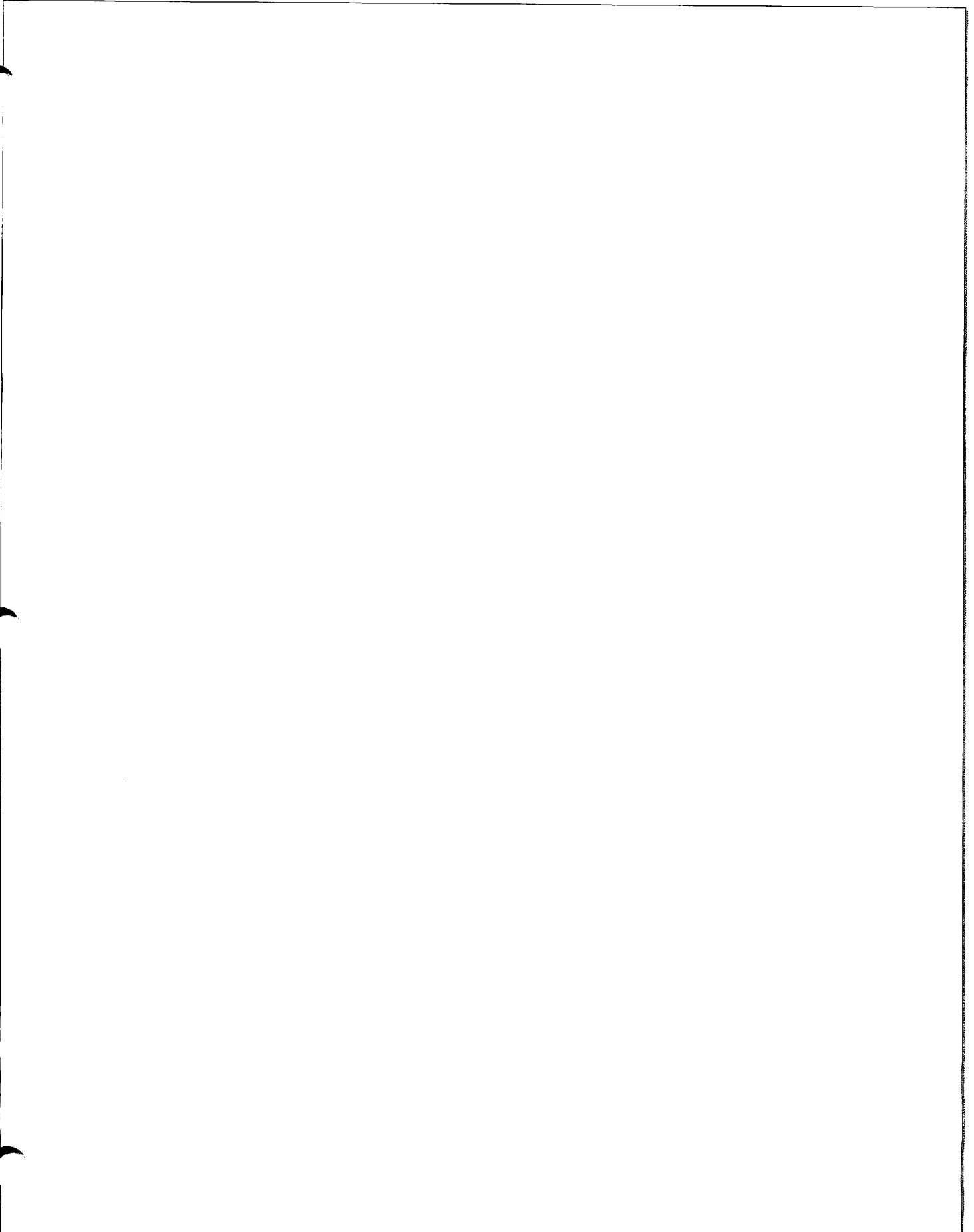
1	2	3	4	NA
very	somewhat	somewhat	very	this position does
poorly	poorly	well	well	not require writing ability

Comments related to writing ability:

4) On a scale of 1 to 4, how well prepared was this person in terms of his/her oral presentation skills required for this position? (circle one)

1	2	3	4	NA
very	somewhat	somewhat	very	this position does not require
poorly	poorly	well	well	oral presentation skills.

Comments related to oral presentation skills:



5) On a scale of 1 to 4, how well prepared was this person in terms of his/her problem solving and reasoning skills required for this position? (circle one)

- | | | | | |
|--------|----------|----------|------|--------------------------------|
| 1 | 2 | 3 | 4 | NA |
| very | somewhat | somewhat | very | this position does not require |
| poorly | poorly | well | well | problem solving skills |

Comments related to problem solving and reasoning skills:

6) On a scale of 1 to 4, how well prepared was this person in terms of his/her knowledge of applicable agencies, laws, and regulations required for this position? (circle one)

- | | | | | |
|--------|----------|----------|------|-----------------------------------------------|
| 1 | 2 | 3 | 4 | NA |
| very | somewhat | somewhat | very | this position does |
| poorly | poorly | well | well | not require knowledge of agencies, laws, etc. |

Comments related to knowledge of applicable agencies, laws, and regulations:

7) On a scale of 1 to 4, how well prepared was this person in terms of the knowledge of professional conduct and behavior related to his/her current position? (circle one)

- | | | | |
|--------|----------|----------|------|
| 1 | 2 | 3 | 4 |
| very | somewhat | somewhat | very |
| poorly | poorly | well | well |

Comments related to knowledge of professional options and responsibilities:

8) Any other comments you care to make regarding the employees education by the Department of Earth Science at UVSC: