ASSESSMENT RECORD FOR DEPARTMENT OF

Biology

(Academic Department Name)

2004 - 2005

(Assessment Period Covered)

March 13, 2005

(Date Submitted)

Includes Assessment Reports for those Instructional Programs listed below:

Title of Instructional Degree Program	Degree Level (Associate, Bachelors, Masters, etc.)
Associate in Science, biology emphasis	**Associate in Science**
Bachelors of Science in Integrate studies, biology emphasis	**Bachelors of Science**
Bachelors of Science, Biology	**Bachelors of Science**
Bachelor of Science Degree in Biology Education	**Bachelors of Science**

Submitted By:

ASSESSMENT **(Departmental Chair or Faculty Assessment Representative)**

Form A

REPORT
FOR

Bachelors of Science, Biology
(Instructional Degree Program)
2004 - 2005
(Assessment Period Covered)

Bachelors of Science in Secondary Edu.
(Degree Level)

March 13, 2006
(Date Submitted)

Mission Linkage:

UVSC Mission Reference:

It is our goal to assist students to attain their goals, maximize their potential and talents both personally and professionally. It is also our goal to increase global awareness, understanding and responsibility regarding biological issues facing the world today.

Department Mission Statement:

The mission of the Department of Biology is twofold: first, we are committed to educate students in the principle tenets of biology through structured inquiry and opportunities for individualized experiential learning. Second, we are committed to teaching ethical behavior in experimental design and practice to all of our students. The Department strives to provide the best educational opportunities possible for students to attain their academic goals and to facilitate faculty in scholarship in an atmosphere that encourages free exchange of ideas.

Intended Educational (Student) Outcomes:

1. Demonstrate an overall knowledge of biology needed to teach in the secondary education system.

2. 90% of UVSC students completing a Bachelors of Science Degree in Secondary Education in biology and who apply for employment teaching in junior high and high schools will successfully gain employment in secondary education within one year.

3. Students who do gain employment in secondary education will demonstrate skill and knowledge in pedagogy.

ASSESSMENT REPORT
FOR

(Degree Level)

Bachelors of Science, Biology
Bachelors of Science in Secondary Edu.
(Instructional Degree Program)

(Date Submitted)

2004 - 2005
(Assessment Period Covered)

March 13, 2006

Intended Educational (Student) Outcome:

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

1. Demonstrate an overall knowledge of biology needed to teach in the secondary education system.

First Means of assessment for the outcome Identified above:

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

Of the students successfully completing a cap stone evolution class in Biology:

30% will score in the 75 percentile or better;
50 % will score in the 60 percentile or better;
60% will score in the 50 percentile or better;

in **all subscores** of the MFAT.

(For this information please refer to the outcomes assessment and results for the B.S. degree in Biology and appendix A)

Second Means of Assessment for Outcome Identified Above:

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

90 percent of the students who have successfully completed the B.S. degree in Secondary Education, Biology will score 150 or higher on the Praxis I Content exam.

1.b. Description of Data Collection & Assessment Results:

All of the students who have successfully complete the requirements for a B.S. degree in Secondary education and wish to apply for employment shall be required to take the Praxis I content exam in biology administered under the authority of the State Board of Education. The Results are sent to each institution of higher education from which the examinees are from. Results will be compared with National and State averages.

Results 2005: Of the eight students who took the Praxis test, all exceeded the minimum score of 150 by a significant margin and the average score for the UVSC graduates was 179.9 with one perfect score of 200. The average for the State of Utah was reported to be 162. We will confirm that when and if official results are released. (See Appendix C-2005)

1.b. Use of Results to Improve Instructional Program:

The goal was easily met. The faculty decided to continue monitoring this outcome assessment tool since this is the first time it has been available. If the score remains high next year we will increase the goal. We have also asked the state if subscores are available so we can use the Praxis test to evaluate curriculum components.

(Degree Level)

(Date Submitted)

ASSESSMENT REPORT
FOR

Bachelors of Science, Biology
(Instructional Degree Program)

Bachelors of Science in Secondary Edu.

2004 - 2005
(Assessment Period Covered)

March 13, 2006

Intended Educational (Student) Outcome:

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

2. 90% of UVSC students completing a Bachelors of Science Degree in Secondary Education in biology and who apply for employment teaching in junior high and high schools will successfully gain employment in secondary education within one year.

Means of assessment for the outcome Identified above:

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

All of the students who complete the requirements for graduation with a B.S. degree in secondary education in biology and seek employment in secondary education will be tracked by the biology advisor. Information will be kept on the number of UVSC who are successful in obtaining employment in secondary education vs the number who are unsuccessful. The percent will be compared to the goal of 90% placement

2.a. Description of Data Collection & Assessment Results:

Of the 9 secondary education biology student who graduated in 2005 and applied for jobs in secondary education. 9 were successful in obtaining employment. 100% placement. This exceeds our goal.

2.a. 1.b. Use of Results to Improve Instructional Program:

Faculty determined that this is preliminary information and that this outcome parameter should be monitored for three years to monitor the trend.

(Degree Level)

(Date Submitted)

ASSESSMENT REPORT
FOR

Bachelors of Science, Biology **Bachelors of Science in Secondary Edu.**

(Instructional Degree Program)

2004 - 2005 **March 13, 2006**

(Assessment Period Covered)

Intended Educational (Student) Outcome:

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

3. Students who do gain employment in secondary education will demonstrate skill and knowledge in pedagogy.

Means of assessment for the outcome Identified above:

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

A student who has successfully been employed in secondary education is required by the state board of education to take the Paxis II Pedagogy test after two years of employment. The results of this test will be submitted to UVSC's department of secondary education and the department of biology will request that information from them.

3.a. Description of Data Collection & Assessment Results:

The parameters of this test is not know at this time since this is a new procedure adopted by the State of Utah this

year. Scores will be used to evaluate teaching quality. This data will not be available for at least 1-2 years since our program is relatively new and the implementation is dependent on state time lines.

3.a. 1.b. Use of Results to Improve Instructional Program:

The biology department in conjunction with the department of secondary education will use the information from the Paxis II pedagogy scores to evaluate the pedagogy components of the Biology Secondary Education program and to suggest improvements in the teaching methods taught in the Biology 4200 course.

Appendix C- 2005

Praxis Scores

Fall 2005

DeWyze, Robert (12)	176	Biology
Johnson, Michael (12)	190	Biology
Smith, Rachel (12)	172	Biology
Hamblin, Gayle (12)	185	Biology
Moon, John (12)	168	Biology

Spring 2006

Breinholt, Jesse	173	Biology
Colton, Erin	175	Biology
Krieger-James, Kurt	200	Biology
Wilkinson, Kit C.	176	Biology
Average 05-06	179.4	

100 % placement in secondary education
Score of 150 = cut off for hire in most states
State average = 162