

**ASSESSMENT RECORD FOR
DEPARTMENT
OF**

Sciences and Mathematics
(Academic Department Name)

2006-2007
(Assessment Period Covered)

October 26, 2007
(Date Submitted)

Includes Assessment Reports for those Instructional Programs listed below:

Title of Instructional Degree Program

Degree Level

(Associate, Bachelors,
Master's, etc.)

Biology

Bachelor's

Submitted By: _____
(Departmental Chair or Faculty Assessment Representative)

ASSESSMENT REPORT FOR

Biology

(Instructional Degree Program)

Bachelor's

(Degree Level)

2006-2007

(Assessment Period Covered)

October 25, 2007

(Date Submitted)

Expanded Statement of Institutional Purpose Linkage:

Institutional Mission Reference: As a university committed to the liberal arts as fundamental to education and committed to our affiliation with the Presbyterian Church (U.S.A.), Schreiner is dedicated to excellence in preparing students to live purposeful, humane and productive lives in their work, faith groups, families and communities.

College/University Goal(s) Supported: Schreiner is dedicated primarily to educating undergraduate students in the liberal arts, sciences, and professional disciplines, preparing them for entry into specific careers and graduate or professional programs.

Intended Educational (Student) Outcomes:

1. Upon graduating with a major in biology a student will be able to demonstrate an open-minded, unprejudiced approach to problem-solving.

2. Upon graduating with a major in biology a student will be able to exhibit a working knowledge of major biological concepts.

3. Upon graduating with a major in biology a student will be able to Understand the interrelationships of scientific concepts, and understand that while scientific knowledge has limitations it also has great power to explain natural phenomena and solve problems.

4.

5.

ASSESSMENT REPORT FOR

Biology

(Instructional Degree Program)

2006-2007

(Assessment Period Covered)

Bachelor's

(Degree Level)

October 25, 2007

(Date Submitted)

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 Upon graduating with a major in biology a student will be able to demonstrate an open-minded, unprejudiced approach to problem-solving.

First Means of Assessment for Outcome Identified Above:

 1 a. Means of Program Assessment & Criteria for Success: Satisfactory completion of the capstone course ("C" or better) illustrates an ability to perform satisfactorily in this area

 1 a. Summary of Assessment Data Collected: 2006-2007 Capstone pass rate: 100%

 1 a. Use of Results to Improve Instructional Program: No changes are planned at this time.

Second Means of Assessment for Outcome Identified Above:

 1 b. Means of Program Assessment & Criteria for Success: Students should have an overall GPA of 2.0 or higher.

 1 b. Summary of Assessment Data Collected: Overall biology graduates had a GPA of 3.04 in 2006-7

 1 b. Use of Results to Improve Instructional Program: No changes are planned.

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Biology

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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 Upon graduating with a major in biology a student will be able to exhibit a working knowledge of major biological concepts.

First Means of Assessment for Outcome Identified Above:

 2 a. Means of Program Assessment & Criteria for Success: A grade point average of biology graduates of 2.0 or better shows a working knowledge of major biological concepts.

 2 a. Summary of Assessment Data Collected: 2006-2007 graduates in biology average overall GPA 3.04

 2 a. Use of Results to Improve Instructional Program: No changes are planned at this time.

Second Means of Assessment for Outcome Identified Above:

 2 b. Means of Program Assessment & Criteria for Success: The major field exam of biology graduating seniors also shows a working knowledge of major biological concepts.

 2 b. Summary of Assessment Data Collected: Major field exam results: Total scores 131, 138, 149, 151, 151, 157. National average 153.4

 2 b. Use of Results to Improve Instructional Program: No changes are planned at this time.

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Biology

(Instructional Degree Program)

2006-2007

(Assessment Period Covered)

Bachelor's

(Degree Level)

October 25, 2007

(Date Submitted)

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 Upon graduating with a major in biology a student will be able to understand the interrelationships of scientific concepts, and understand that while scientific knowledge has limitations it also has great power to explain natural phenomena and solve problems.

First Means of Assessment for Outcome Identified Above:

 3 **a. Means of Program Assessment & Criteria for Success:** Understanding the interrelationships of scientific concepts is assessed by the biology outcomes assessment test and by the overall grade point average of biology majors. The limitations and power of science to explain natural phenomena and solve problems is assessed during the capstone course in which students get to struggle with the utility of scientific knowledge.

 3 **a. Summary of Assessment Data Collected:** Overall GPA of biology graduates 2006-7 2.97. Biology outcomes assessment tests of 2006-7 biology graduates 131,138,149,151,151,157 (National average 153.4). Capstone course pass rate 2006-7 100%.

 3 **a. Use of Results to Improve Instructional Program:** No changes are planned at this time.

Second Means of Assessment for Outcome Identified Above:

 b. Means of Program Assessment & Criteria for Success:

 b. Summary of Assessment Data Collected:

 b. Use of Results to Improve Instructional Program: