

**ASSESSMENT RECORD FOR  
DEPARTMENT  
OF**

**Sciences and Mathematics**  
(Academic Department Name)

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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.)

Biochemistry

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Bachelor's

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Submitted By: \_\_\_\_\_  
(Departmental Chair or Faculty Assessment Representative)

# ASSESSMENT REPORT FOR

**Biochemistry**

(Instructional Degree Program)

**Bachelor's**

(Degree Level)

**2006-2007**

(Assessment Period Covered)

**October 26, 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 biochemistry a student will be able to demonstrate an open-minded, unprejudiced approach to problem-solving.

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

3. Upon graduating with a major in biochemistry 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

Biochemistry

(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 biochemistry 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: Students must have an overall GPA of 2.0 or higher.

  1   a. Summary of Assessment Data Collected: 2006-2007 majors had an overall GPA of 3.27, graduates 2.97.

  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: Satisfactory performance on the Major Field Exam also shows proficiency.

### 1   b. Summary of Assessment Data Collected:

2000-2001 Field Exam score: 50

2001-2002 Field Exam score: 39, 37, 44

2002-2003 Field Exam score: 25, 27, 31, 38, 45

2003-2004 Field Exam score: 28, 47, 50, 53

2004-2005 Field Exam score: 38, 39, 41, 46, 50

2005-2006 Field Exam score: 39, 57

2006-2007 Field Exam Score: 43

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

# ASSESSMENT REPORT FOR

Biochemistry

(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.*

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

## First Means of Assessment for Outcome Identified Above:

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

  2   a. Summary of Assessment Data Collected: 2006-2007 overall GPA of biochemistry graduates 2.97

  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: Satisfactory performance on the Major Field Exam also shows satisfactory completion of the goal.

  2   b. Summary of Assessment Data Collected: Major Field Exam results:

2000-2001 Field Exam score: 50  
2001-2002 Field Exam score: 39, 37, 44  
2002-2003 Field Exam score: 25, 27, 31, 38, 45  
2003-2004 Field Exam score: 28, 47, 50, 53  
2004-2005 Field Exam score: 38, 39, 41, 46, 50  
2005-2006 Field Exam score: 39, 57  
2006-2007 Field Exam Score: 43

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

# ASSESSMENT REPORT FOR

Biochemistry

(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 biochemistry 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:** A grade point average of biochemistry graduates of 2.0 or better shows a working knowledge of major biological concepts.

  3   a. **Summary of Assessment Data Collected:** 2006-2007 overall GPA of biochemistry graduates 2.97

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

## Second Means of Assessment for Outcome Identified Above:

  3   b. **Means of Program Assessment & Criteria for Success:** Satisfactory performance on the Major Field Exam also shows satisfactory completion of the goal.

  3   b. **Summary of Assessment Data Collected:** Major Field Exam results:

2000-2001 Field Exam score: 50

2001-2002 Field Exam score: 39, 37, 44

2002-2003 Field Exam score: 25, 27, 31, 38, 45

2003-2004 Field Exam score: 28, 47, 50, 53

2004-2005 Field Exam score: 38, 39, 41, 46, 50

2005-2006 Field Exam score: 39, 57

2006-2007 Field Exam Score: 43

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