

**ASSESSMENT RECORD FOR  
DEPARTMENT  
OF**

**Engineering (under Mathematics Department)**

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(Academic Department Name)

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**6-01-07 to 5-31-08**

(Assessment Period Covered)

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**10-31-08**

(Date Submitted)

**Includes Assessment Reports for those Instructional Programs listed below:**

Title of Instructional Degree Program

Degree Level

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

Pre-Engineering 3-2 Program

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-- 3 years at Schreiner; BGS Degree with 30 transfer hours in engineering.

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Submitted By: Clint Coles

(Departmental Chair or Faculty Assessment Representative)

# ASSESSMENT REPORT FOR

**Pre-Engineering 3-2 Program**  
(Instructional Degree Program)

**BGS**  
(Degree Level)

**6-01-07 to 5-31-08**  
(Assessment Period Covered)

**10-31-08**  
(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. The student majoring in engineering will demonstrate the ability to interpret and draw neat multiview, isometric and auxiliary drawings.

2. The student majoring in engineering will complete accurate multiview, isometric and auxiliary drawings using the computer and AutoCAD commands.

3. The student majoring in engineering will meet each semester with the engineering advisor to discuss individual student goals.

# ASSESSMENT REPORT FOR

Pre-Engineering 3-2 Program

BGS

(Instructional Degree Program)

(Degree Level)

6-01-07 to 5-31-08

10-31-08

(Assessment Period Covered)

(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. The student majoring in engineering will demonstrate the ability to interpret and draw neat multiview, isometric and auxiliary drawings.

## **First Means of Assessment for Outcome Identified Above:**

**1a. Means of Program Assessment & Criteria for Success:** The student will show satisfactory performance in ENGR 1310 Technical Graphics on both: (1) coursework – average grade of C or better on homework and tests; and (2) final exam – grade of C or better.

**1a. Summary of Assessment Data Collected:** One student failed the course. Satisfactory performance was shown by 16 of 17 students enrolled (94%).

**1a. Use of Results to Improve Instructional Program:** No improvements are planned for this outcome at this time.

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Pre-Engineering 3-2 Program

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(Instructional Degree Program)

(Degree Level)

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10-31-08

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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. The student majoring in engineering will complete accurate multiview, isometric and auxiliary drawings using the computer and AutoCAD commands.

## First Means of Assessment for Outcome Identified Above:

**2a. Means of Program Assessment & Criteria for Success:** The student will show satisfactory performance (C or better) on the final AutoCAD project in ENGR 1310 Technical Graphics.

**2a. Summary of Assessment Data Collected:** Satisfactory performance in the computer portion of the course was shown by 16 of 17 students (94%).

**2a. Use of Results to Improve Instructional Program:** No improvements are planned for this outcome at this time.

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Pre-Engineering 3-2 Program

BGS

(Instructional Degree Program)

(Degree Level)

6-01-07 to 5-31-08

10-31-08

(Assessment Period Covered)

(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. Each student majoring in engineering will meet once a semester with the engineering advisor to discuss individual student goals.

## First Means of Assessment for Outcome Identified Above:

**3a. Means of Program Assessment & Criteria for Success:** Satisfactory performance is evaluated by recording the meetings between students and advisor that involve pre-engineering coursework and planning for the future.

**3a. Summary of Assessment Data Collected:** 87% of the engineering majors met the stated goal during this school year. Several students changed majors during this time period.

**3a. Use of Results to Improve Instructional Program:** Students sometimes do not respond to notices for scheduled meetings. Many of the freshman engineering majors in the current school year have been assigned to the engineering advisor as their regular academic advisor, which should make it easier to contact students and meet the stated goal.