

# ASSESSMENT REPORT FOR

Bachelor of Science with a major in Chemistry (BS)  
**Instructional Degree Program**

Spring 2004  
**Assessment Period Covered**

29 June 2004  
**Date Submitted**

## **Expanded Statement of Institutional Purpose Linkage:**

### **Institutional Mission Reference:**

Texas A&M International University, a Member of The Texas A&M University System, is committed to the preparation of students for leadership roles in their chosen profession and in an increasingly complex, culturally diverse state, national, and global society...Through instruction, faculty and student research, and public service, Texas A&M International University is a strategic point of delivery for well-defined programs and services that improve the quality of life for citizens of the border region, the State of Texas, and national and international communities.

### **College/University Goal(s) Supported:**

To improve the chemistry skills of students to prepare them for teaching, governmental employment or professional school.

### **Intended Educational (Student) Outcomes:**

1. Students will demonstrate a working knowledge of: Acid-base equilibrium, the buffering properties of water, enzyme kinetics and the thermodynamics of biological systems.
2. Students will demonstrate the ability to plan and execute a research project then present the material in a logical manner.

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## **Intended Educational (Student) Outcome:**

Students will demonstrate a working knowledge of: Acid-base equilibrium, the buffering properties of water, enzyme kinetics and the thermodynamics of biological systems.

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

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

Students will attain an overall mean of 70% on embedded questions on the comprehensive final exam in CHEM/BIOLOGICAL 3451, Biochemistry, Spring Semester.

**1a. Summary of Assessment Data Collected:** The mean on the embedded questions on the final exam was 66%.

**1a. Use of Results to Improve Instructional Program:** Although the mean score on the embedded questions was near the anticipated mean, additional problems are being assigned to help the students master the topics.

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## **Intended Educational (Student) Outcome:**

Students will demonstrate the ability to plan and execute a research project then present the material in a logical manner.

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

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

Students will present to a combined group of their peers, the results of their research projects. Projects will be evaluated by a jury of at least 3 departmental faculty utilizing a rubric designed by the department. Students will average 70%.

**2a. Summary of Assessment Data Collected:** Two research projects were presented. The mean score was 76%.

**2a. Use of Results to Improve Instructional Program:** The overall mean was acceptable, however, the number of presenters was low. Results are being used by instructors to improve grammar, spelling and sentence structure.

## SUPPORT DOCUMENTATION

SOURCE	LOCATION/Special Instructions