

ASSESSMENT REPORT FOR

Bachelor of Arts with a major in Physical Science (BA)
Instructional Degree Program

Spring 2004

Assessment Period Covered

June 17, 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 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:

The faculty and administrators of the College of Arts and Sciences and the Department of Mathematical and Physical Sciences are committed to providing a scholarly environment in which students prepare for productive lives in a dynamic world and in a changing global and technologically advancing environment.

Intended Educational (Student) Outcomes:

1. Learner outcome: Students completing the physical science program will acquire an understanding of the fundamental principles of classical and modern physical science.

Expected Educational Outcome: Students completing the physical science program will demonstrate skills related to applying the fundamental principles of classical and modern physical science.

2. Learner Outcome: Students completing the physical science program will acquire the ability to analyze and interpret experimental data of physical science phenomena.

Expected Educational Outcome: Students completing the physical science program will demonstrate an ability to analyze and interpret experimental data of physical science phenomena including applications of computers and software.

3. Learner Outcome: Students completing the physical science program will learn to communicate, in form and content, verbally the results of physical science investigative work.

Expected Educational Outcome: Students completing the physical science program will demonstrate an ability to communicate the results of physical science investigative work by making an oral presentation.

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__1__ Learner outcome: Students completing the physical science program will acquire an understanding of the fundamental principles of classical and modern physical science. Expected Educational Outcome: Students completing the physical science program will demonstrate skills related to applying the fundamental principles of classical and modern physical science.

First Means of Assessment for Outcome Identified Above:

__1__a. Means of Program Assessment & Criteria for Success: Evaluation of student solutions to problems dealing with fundamental principles of physical science in a qualitative/quantitative exam developed, administered and evaluated by the physical science program faculty. 70% of students expected to score 70% or better on this physical science exam.

__1__a. Summary of Assessment Data Collected: An Exam was created but was not administered since no BA Physical Sciences majors graduated in the Fall 2003 semester.

__1__a. Use of Results to Improve Instructional Program: Identify the physical science concepts that need more emphasis and change the instructional methods to accommodate findings.

Second Means of Assessment for Outcome Identified Above:

__1__b. Means of Program Assessment & Criteria for Success: At a multimedia presentation, the graduating students will provide evidence that they have the knowledge and experience necessary to apply the fundamental principles methods of classical and modern physical science with score 60% or better as determined by a committee of Physical Science Faculty.

__1__b. Summary of Assessment Data Collected: A multimedia presentation was not made since no BA Physical Sciences majors graduated in the Fall 2003 semester.

__1__b. Use of Results to Improve Instructional Program: Identify the physical science concepts that need more emphasis and change the instructional methods to accommodate findings.

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 2 . Learner Outcome: Students completing the physical science program will acquire the ability to analyze and interpret experimental data of physical science phenomena.

Expected Educational Outcome: Students completing the physical science program will demonstrate an ability to analyze and interpret experimental data of physical science phenomena including the application of computers and software.

First Means of Assessment for Outcome Identified Above:

 2 **a.** Means of Program Assessment & Criteria for Success: Evaluation of student analysis and interpretation of experimental data of physical science phenomena in a data analysis/interpretation exam developed, administered and evaluated by the physical science program faculty. 70% of students expected to score 70% or better on physical science data analysis/interpretation exam.

 2 **a.** Summary of Assessment Data Collected: An Exam was created but was not administered since no BA Physical Sciences majors graduated in the Fall 2003 semester.

 2 **a.** Use of Results to Improve Instructional Program: Identify the physical science concepts that need more emphasis and change the instructional methods to accommodate findings.

Second Means of Assessment for Outcome Identified Above:

 2 **b.** Means of Program Assessment & Criteria for Success: At a multimedia presentation, the graduating students will provide evidence that they have the knowledge and experience necessary to analyze and interpret experimental data of physical phenomena with score 60% or better as determined by a committee of Physical Science faculty.

__2__b. Summary of Assessment Data Collected: A multimedia presentation was not made since no BA Physical Sciences majors graduated in the Spring 2003 semester.

__2__b. Use of Results to Improve Instructional Program: Identify the physical science concepts that need more emphasis and change the instructional methods to accommodate findings.

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 3 . Learner Outcome: Students completing the physical science program will learn to communicate, in form and content, verbally the results of physical science investigative work. Expected Educational Outcome: Students completing the physical science program will demonstrate an ability to communicate the results of physical science investigative work by making a oral presentation.

First Means of Assessment for Outcome Identified Above:

 3 **a.** Means of Program Assessment & Criteria for Success: Evaluation of student ability to communicate by an oral presentation of physical science investigative work in a oral communication exam developed, administered and evaluated by the physical science program faculty. 70% of students expected to score 70% or better on physical science communication exam.

 3 **a.** Summary of Assessment Data Collected: An Exam was created but was not administered since no BA Physical Sciences majors graduated in the Fall 2003 semester.

 3 **a.** Use of Results to Improve Instructional Program: Identify the physical science concepts that need more emphasis and change the instructional methods to accommodate findings.

Second Means of Assessment for Outcome Identified Above:

 3 **b.** Means of Program Assessment & Criteria for Success: At a multimedia presentation, the graduating students will provide evidence that they have the knowledge and experience necessary to communicate the results of physical science investigations with score 60% or better as determined by a committee of Physical Science Faculty.

__3__ b. Summary of Assessment Data Collected: At a multimedia presentation, the graduating students will provide evidence that they have the knowledge and experience necessary to communicate the results of physical science investigations with score 60% or better as determined by a committee of Physical Science Faculty.

__3__ b. Use of Results to Improve Instructional Program: Identify the physical science concepts that need more emphasis and change the instructional methods to accommodate findings.

SUPPORT DOCUMENTATION

SOURCE	LOCATION/Special Instructions