



Texas Southern University  
Assessment Plan 2010-2013

---

## **Unit Assessment Plan**

College of Science and Technology

Master of Science in Mathematics

## Introduction

### **Texas Southern University's Mission**

Texas Southern University is a comprehensive metropolitan university. Building on its legacy as a historically black institution, the university provides academic and research programs that address critical urban issues and prepare an ethnically diverse student population to become a force for positive change in a global society.

*In order to achieve this mission, Texas Southern University provides:*

- quality instruction in a culture of innovative teaching and learning
- basic and applied research and scholarship that is responsive to community issues
- opportunities for public service that benefit the community and the world.

### **Texas Southern University's Vision**

Texas Southern University will become one of the nation's pre-eminent comprehensive metropolitan universities. We will be recognized by the excellence of our programs, the quality of our instruction, our innovative research, and our desire to be a contributing partner to our community, state, nation, and world.

#### ***Accreditation Standards***

Accreditation by Southern Association of Colleges and Schools Commission on Colleges (SACS) Commission on Colleges signifies that the institution: (1) has a mission appropriate to higher education, (2) has resources, programs, and services sufficient to accomplish and sustain that mission, and (3) maintains clearly specified educational objectives that are consistent with its mission and appropriate to the degrees it offers, and that indicate whether it is successful in achieving its stated objectives.

*Source: The Principles of Accreditation: Foundations for Quality Enhancement, 5<sup>th</sup> edition*

## Goal 1 Assessment Plan 2010-11 to 2012-13

### 1 Goal Description

Goal 1

To graduate students with a broad knowledge and competence in the traditional fields of mathematics who will use critical thinking and mathematical skills.

### 2 SLO Student Learning Outcomes/Objectives

â€ SLO 1.1

Students will demonstrate that they have acquired the mathematical maturity, motivation, knowledge, and skills necessary for success in their graduate work by successfully writing and defending a Master Thesis.

â€ SLO 1.2.

Students will demonstrate developing the ability to read and understand, to write and discuss mathematical concepts; to see the interconnection of different areas of mathematics and recognize the underlying patterns that form these relationships by successfully passing the oral comprehensive.

### 3 Metric

Metric 1.1

Written thesis and oral defense of thesis.

Metric 1.2

Oral comprehensive examination after completing 15-18 hours of course work.

### 4 Target 2010-11

Target 1.1

20% of the students will write their thesis and pass oral defense of their thesis

Target 1.2

30% of the students will pass their oral comprehensive exam first time.

### 5 Findings 2010-11

Findings 1.1

17.65% of the students wrote their thesis and passed oral defense of their thesis

Findings 1.2

5.88% of the students took their oral comprehensive exams.

### 6 Action Plan 2010-11

2010-11: Develop a non-thesis option, and recruit and retain graduate students through funding opportunities.

### 7 Target 2011-12

Target 1.1

20% of the students will write their thesis and pass oral defense of their thesis

Target 1.2

30% of the students will pass their oral comprehensive exam first time.

### 8 Findings 2011-12

Finding 1.1:

40% of the students took their oral comprehensive exams.

Findings 1.2:

40% of the students took their oral comprehensive exams.

### 9 Action Plan 2011-12

Master program is going to phase out in 2014, so we are going to graduate all the graduate students by 2014.

#### **10 Target 2012-13**

Target 1.1

20% of the students will write their thesis and pass oral defense of their thesis

Target 1.2

30% of the students will pass their oral comprehensive exam first time.

#### **11 Findings 2012-13**

Finding 1.1:

33.33% of the students took their oral comprehensive exams.

Findings 1.2:

33.33% of the students took their oral comprehensive exams.

#### **12 Action Plan 2012-13**

Master program is going to phase out in 2014, so we are going to graduate all the graduate students by 2014.

#### **13 Additional Reference Documents**

Oral comprehensive exam report results summary.

[Embedded Final Exam Questions Data and SEAM 2010-2013 03.04.2013](#) [XLSX 33 KB 10/2/15]

[Embedded Final Exam Questions Data and SEAM 2010-2013 07.09.2013](#) [XLSX 36 KB 10/2/15]

### **Goal 2 Assessment Plan 2010-11 to 2012-13**

#### **1 Goal Description**

Goal 2

To graduate students with the skills and independence to be team players in their chosen field of concentration.

#### **2 SLO Student Learning Outcomes/Objectives**

â€ SLO 2.1

Students will demonstrate the ability to work both independently and collaboratively with a problem solving team in a specific area of mathematics and/or other related disciplines.

#### **3 Metric**

Completion of 3- 15 hours of course work.

#### **4 Target 2010-11**

50% of the students will complete 3-15 hours of course work.

#### **5 Findings 2010-11**

70.59% of the students completed 3-15 hours of course work.

#### **6 Action Plan 2010-11**

2010-11: Develop a non-thesis option, and recruit and retain graduate students through funding opportunities.

#### **7 Target 2011-12**

50% of the students will complete 3-15 hours of course work.

#### **8 Findings 2011-12**

100% of the students completed 3-15 hours of course work.

#### **9 Action Plan 2011-12**

Master program is going to phase out in 2014, so we are going to graduate all the graduate students by 2014.

#### **10 Target 2012-13**

50% of the students will complete 3-15 hours of course work.

**11 Findings 2012-13**

100% of the students completed 3-15 hours of course work.

**12 Action Plan 2012-13**

Master program is going to phase out in 2014, so we are going to graduate all the graduate students by 2014.

**13 Additional Reference Documents**

Student progress report.