Unit Assessment Report - Four Column

Texas Tech University Program - AS_Mathematics (MA)

CIP Code: 27.0101.00

Degree Program Kent Pearce

Coordinator:

Purpose Statement: M.A. Degree in Mathematics. This program consists of

36 hours of graduate work, including 3 hours of credit for a departmental report. The student must complete three

sequences chosen from algebra, analysis, geometry, probability and statistics, modeling and applications, and computer literacy. This degree is offered primarily for those students who wish to teach mathematics at the secondary level or at a

junior/community college.

Outcomes	Means of Assessment & Criteria / Tasks	Results	Action for Improvement & Documentation of Action for
Program - AS_Mathematics (MA) - Strategic Outcome 1 - Increase enrollment and promote student success: We will grow and diversify our student population in order to improve higher education participation and supply a well-equipped, educated workforce for the State of Texas. (TTU 2010-2020 Strategic Plan Priority 1) Outcome Types: Strategic Start Date: 09/01/2009 Outcome Status: Inactive	Assessment Method: Total enrollment in the degree program.		
	Assessment Method: Enrollment of new students in the degree program (new freshman, new transfer students, new graduate)		
	Assessment Method: Mean Class Rank of entering freshmen (if available)		
	Assessment Method:		
	Mean ACT/SAT scores for entering freshmen majors (if available)		
	Assessment Method:		
	Ethnic diversity of the first-time entering freshman class in the major or degree		
	Assessment Method:		
	Mean GRE scores for entering graduate students (if applicable and available)		
	Assessment Method: First-year retention rate for majors or degree seekers		

Outcomes	Means of Assessment & Criteria / Tasks	Results	Action for Improvement & Documentation of Action for
	Assessment Method: Second-year retention rate for majors or degree seekers		
	Assessment Method: Four- and Six-Year Graduation Rates in the major or degree program.		
	Assessment Method: Master's Graduation Rate		
	Assessment Method: Doctoral Graduate Rate		
	Assessment Method: Doctoral Time to Degree Completion		
	Assessment Method: Total degrees awarded (annual Fall, Spring and Summer) in the major or degree		
	Assessment Method: For doctoral programs only, total number of Ph.D. awarded (Fall, Spring, and Summer) in the report year, number of other doctorates awarded (Ed.D.'s, DMA's, etc.).		
Program - AS_Mathematics (MA) - Strategic Outcome 2 - Strengthen Academic Quality	Assessment Method: Total enrollment in the degree program		
and Reputation: We will attract and retain the best faculty in the world in order to enhance our teaching excellence and grow our number of nationally recognized programs. (TTU 2010-2020 Strategic Plan	Assessment Method: Enrollment of new students in the degree program (new freshman, new transfer students, new graduate)		
Priority 2) Outcome Types: Strategic	Assessment Method: Mean Class Rank of entering freshmen (if available)		
Start Date: 09/01/2009 Outcome Status: Inactive	Assessment Method: Mean ACT/SAT scores for entering freshmen majors (if available)		

Outcomes	Means of Assessment & Criteria / Tasks	Results	Action for Improvement & Documentation of Action for
	Assessment Method: Ethnic diversity of the first-time entering freshman class in the major or degree		
	Assessment Method: Mean GRE scores for entering graduate students (if applicable and available).		
	Assessment Method: First-year retention rate for majors or degree seekers.		
	Assessment Method: Second-year retention rate for majors or degree seekers.		
	Assessment Method: Four- and Six-Year Graduation Rates in the major or degree program.		
	Assessment Method: Master's Graduation Rate		
	Assessment Method: Doctoral Graduation Rate		
	Assessment Method: Doctoral Time to Degree Completion		
	Assessment Method: Total degrees awarded (annual Fall, Spring and Summer) in the major or degree		
	Assessment Method: For doctoral programs only, total number of Ph.D.'s awarded (Fall, Spring, and Summer) in the report year, number of other doctorates awarded (Ed.D.'s, DMAs, etc.).		
Program - AS_Mathematics (MA) - Research and Advanced Mathematics - Students will demonstrate knowledge of advanced mathematical topics and conduct	Assessment Method: Assessment will utilize surveys of the thesis and report advisory committees	09/14/2011 - Thesis committees were surveyed as to student mastery of advanced concepts and preparedness to conduct independent research.	

Outcomes	Means of Assessment & Criteria / Tasks	Results	Action for Improvement & Documentation of Action for
research. Outcome Types: Student Learning Start Date: 12/31/2010 Outcome Status: Active	Assessment Method Category: Post-Evaluation	See attached document "Advanced Topics Mastery - Thesis Committee Survey 2011" for Result Type: Criterion Met Action Status: No Action Needed Related Documents: Advanced Topics Mastery - Thesis Committee Survey 2011	
	Assessment Method: Assessment will utilize surveys of instructors teaching core graduate courses. Assessment Method Category: Post-Evaluation	05/31/2009 - Instructors of prelim sequences were surveyed as to their students competency. See attached document "Advanced Topics Mastery - Core Course Survey 2009" for results. Result Type: Inconclusive Action Status: Action In Progress Related Documents: Advanced Topics Mastery - Core Course Survey 2009	11/04/2010 - Review the core sequences: curriculum, graduate texts, passage rates
		05/31/2008 - Instructors of prelim sequences were surveyed as to their students competency. See attached document "Advanced Topics Mastery - Core Course Survey 2008" for results. Result Type: Inconclusive Action Status: Action To Be Defined Related Documents: Advanced Topics Mastery - Core Course Survey 2008	
		05/31/2007 - Instructors of prelim sequences were surveyed as to their students competency. See attached document "Advanced Topics Mastery - Core Course Survey 2007" for results. Result Type: Inconclusive Action Status: Action To Be Defined	

Outcomes	Means of Assessment & Criteria / Tasks	Results	Action for Improvement & Documentation of Action for
		Related Documents: Advanced Topics Mastery - Core Course Survey 2007	
Program - AS_Mathematics (MA) - Oral and Written Communication Skills - Students will demonstrate effective oral and written communication skills. Outcome Types: Student Learning Start Date: 07/01/2006 Outcome Status:	Assessment Method: Assessment will utilize surveys of the thesis and report advisory committees Assessment Method Category: Post-Evaluation Criterion: 80% or higher of identified students in the surveys will be characterized as having effective oral and written communications.	09/14/2011 - The advisory committees were surveyed as to their students competency. See attached document "Graduate Communication Skills 2011" for results. Result Type: Inconclusive Action Status: Action To Be Defined Related Documents: Graduate Communication Skills	
Active		05/31/2010 - The advisory committees were surveyed as to their students competency. See attached document "Graduate Communication Skills 2010" for results. Result Type: Criterion Met Action Status: No Action Needed Related Documents:	
		Graduate Communication Skills 05/31/2009 - The advisory committees were surveyed as to their students competency. See attached document "Graduate Communication Skills 2009" for results. Result Type: Criterion Not Met Action Status: Action To Be Defined Related Documents: Graduate Communication Skills	
		05/31/2008 - The advisory committees were surveyed as to their students competency. See attached document "Graduate Communication Skills 2008" for results. Result Type:	

Outcomes	Means of Assessment & Criteria / Tasks	Results	Action for Improvement & Documentation of Action for
		Criterion Met Action Status: No Action Needed Related Documents: Graduate Communication Skills	
		05/31/2007 - The advisory committees were surveyed as to their students competency. See attached document "Graduate Communication Skills 2007" for results. Result Type: Criterion Not Met Action Status: Action To Be Defined Related Documents: Graduate Communication Skills	
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Program - AS_Mathematics (MA) - Establish Foundation to Properly Teach Math - The prospective teacher of mathematics will demonstrate a mastery of the mathematical material they will be teaching. Outcome Types: Student Learning	Assessment Method: M.A. students will take the TExES Exam Assessment Method Category: Standardized Test Criterion: Of those M.A. students taking the TExES Exam, 90% will pass.		
Start Date: 07/01/2006			
Outcome Status: Active			
Program - AS_Mathematics (MA) - Teaching Skills - Students employed as GTAs will identify and practice good teaching skills required for both academic and industrial employment. Outcome Types:	Assessment Method: Each semester the department will conduct faculty classroom observations of each GTA assigned to teach an undergraduate class. The qualitative and quantitative reports from the classroom observations will be reviewed	09/14/2011 - Student evaluation scores for GTAs for 2006 -2010. Result Type: Criterion Not Met Action Status: Action In Progress	09/16/2011 - Meet with each student each semester for whom the previous semester student evaluation scores are below 3.0 to discuss concerns, problems, needs and goals for improvement

Outcome Types:

Student Learning

Start Date: 07/01/2006

Outcome Status:

and discussed with the GTAs. Each semester the university student evaluations will be administered to each undergraduate course to which a GTA is assigned.

Action In Progress

Related Documents:

GTA Evaluation Scores 2010

01/31/2010 - Student evaluation scores for GTAs for 2006 -2009.

and goals for improvement.

Outcomes	Means of Assessment & Criteria / Tasks	Results	Action for Improvement & Documentation of Action for
Active	Assessment Method Category: Course Level Assessment Criterion: Of the GTAs surveyed, 80% of them will have a score of 4.0 or higher (out of 5.0) on both the faculty observation reports and the student evaluations.	Result Type: Criterion Not Met Action Status: Action In Progress Related Documents: GTA Evaluation Scores 2009	11/04/2010 - Revise the faculty evaluation procedures to add a quantitative component to the faculty classroom observations 11/04/2010 - Meet with each student each semester for whom the previous semester student evaluation scores are below 3.0 to discuss concerns, problems, needs and goals for improvement.
	Assessment Method: All GTA's without prior mathematics teaching experience (at least one year) at either secondary or college levels will take Math 5360: Special Topics in Pedagogy. 80% will pass with a grade of B or higher. Assessment will utilize results from pre- and	12/31/2009 - In 2009-10, 100% of the students enrolled in Math 5360: Special Topics in Pedagogy passed the course with a B or higher. Result Type: Criterion Met Action Status: No Action Needed	
post-course surveys. Criterion: B or higher	12/31/2008 - In 2008-09, 100% of the students enrolled in Math 5360: Special Topics in Pedagogy passed the course with a B or higher. Result Type: Criterion Met Action Status: No Action Needed		
		12/31/2007 - In 2007-08, 100% of the students enrolled in Math 5360: Special Topics in Pedagogy passed the course with a B or higher. Result Type: Criterion Met Action Status: No Action Needed	
		12/31/2006 - In 2006-07, 100% of the students enrolled in Math 5360: Special Topics in Pedagogy passed the course with a B or higher. Result Type:	

Outcomes	Means of Assessment & Criteria / Tasks	Results	Action for Improvement & Documentation of Action for
		Criterion Met Action Status: No Action Needed	
Program - AS_Mathematics (MA) - Pedagogy and Curriculum with Technology - Students will recognize and discriminate pedagogical and curriculum issues involved with the use of mathematics-specific technologies.	Assessment Method: Assessment will utilize a final program student self efficacy survey and interviews with randomly chosen graduating seniors. Assessment Method Category: Survey - Student		
Outcome Types: Student Learning			
Start Date: 07/01/2006			
Outcome Status: Inactive			