ANNUAL PROGRAM REVIEW

NAME OF PROGRAM/DEPARTMENT/SERVICE AREA: MATHEMATICS

NAME OF PERSON SUBMITTING THIS REVIEW: José Rico

DATE OF SUBMISSION: October 15, 2010

MANAGEMENT AREA (check one):

- ☐ **Administrative Services**
- ☒ **Instruction**
- ☐ **Student Services**

ASSESSMENT OF PAST PROGRESS

Describe your progress on your previous year's objectives:

Last Year's objectives are still very much a work in progress. Actually very little progress has happened in these areas. It is just an issue of getting people together and talking. Once dialogue begins, then the department can start the process of asking how can we improve the quality of offerings and begin the process of implementing change and monitoring the effects through assessment.

CURRENT YEAR PROGRESS AND OBJECTIVES

What objectives and tasks will you take on for this year? (You may continue objectives from the prior year.) Will your allocated resources be sufficient given your objectives?

Objective 1: **Develop Multi-Layered Approach to Insure that Students are Taking the Appropriate Mathematics Course.**	**Action Plan (include who is responsible):** Schedule Meetings with Counselors/(Coaches) to discuss scheduling challenges and develop rapport. Schedule Meetings with F/T and P/T Math Instructors to discuss strategies on the instructional staff can provide student course recommendations once the semester has started. (José Rico)
Connection to other plans: Strategic Plan: Topic Area One.	**Resources/Budget Needed:** Potentially will need to purchase pre- and post-test software from Maple TA

Objective 2: **Discuss the Sequence of Topics in courses from Math 303 through Math 110. (Potentially restructure and realign)**	**Action Plan** (include who is responsible)**:** Schedule meetings with staff involved in these course offerings. Develop a consensus/buy-in of proper sequence and scope. (José Rico)
Connection to other plans: Strategic Plan: Topic Area One.	**Resources/Budget Needed:** Time for meetings.

Objective 3: **Develop Program Level SLO's**	**Action Plan** Create the SLOs and then share with faculty for discussion and fine-tuning. (José Rico)
Connection to other plans: Strategic Plan: Topic Area One.	**Resources/Budget Needed:** Time.

Objective 4: **Discuss the development of a common final exam for Math 303 through Math 110.**	**Action Plan** (include who is responsible)**:** Schedule meetings with staff involved in these course offerings. Develop a consensus/buy-in of proper content. (José Rico)
Connection to other plans: Strategic Plan: Topic Area One.	**Resources/Budget Needed:** Time.

Objective 5: **Collect Data on Course Success Rate, Grade, Pre-Test, Post-Test, Common Final Exams, Linked to Prerequisites and Method of Course Entry (Self-Select, Pass of Prior Course, Grade in Prior Course, Placement Score)**	**Action Plan** (include who is responsible)**:** Figure out the institution can generate this data. (José Rico)
Connection to other plans: Strategic Plan: Topic Area One.	**Resources/Budget Needed:** Time.

Objective 6: **Link Course Assessments to Course Level and Program Level SLOs.**	**Action Plan** (include who is responsible)**:** Common Final Exam will be constructed from the Course Level SLOs which then will be linked to the Program Level SLOs. (José Rico)
Connection to other plans: Strategic Plan: Topic Area One.	**Resources/Budget Needed:** Time.

Objective 7: **Analyze and discuss structural improvements for students to get help in mathematics. Topics include integration of web-based learning software, faculty tutors in Learning Center, individual vs. multiple tutor system, coordinated review sessions, scheduled tutoring time vs. drop-in math help center. Development of refresher math courses for student not ready to enroll in the current math offerings (creation of student-directed study plan). How to provide structured remediation while course is in-term?**	**Action Plan** (include who is responsible)**:** Schedule meetings with faculty/staff involved in these course offerings. (José Rico)
Connection to other plans: Strategic Plan: Topic Area One.	**Resources/Budget Needed:** Time for meetings.

BUDGET CHANGE REQUESTS FOR NEXT YEAR

Please provide rationale for budget *changes* (attach budget request sheets for entire annual budget).

Budget Request(s): Amount	Account Code	**Rationale** (include connection to other plans)**:**
$1303	1100-22120-4310	AMATYC Conf, NCTM Online Membership, Webgrade Subscription
$100	1100-22120-4325	Printer Cartridge, AAA Batteries
$		

SUMMARY UPDATE FROM COMPREHENSIVE PROGRAM REVIEW

Based on data provided:

1. Describe the current status of the Program/Depart/Service Area.

There are two full-time faculty that teach in the mathematics department, but both have taught in other areas such as Chemistry and Physics. Average class size for on-campus day offerings for Fall 2010 is 44.6 students. Department wide success rate has increased over the past three terms from 58% (Spring 2009) to 60% (Fall 2010) to 67% (Spring 2010).

2. Explain significant issues and/or changes that have occurred since the last comprehensive review.

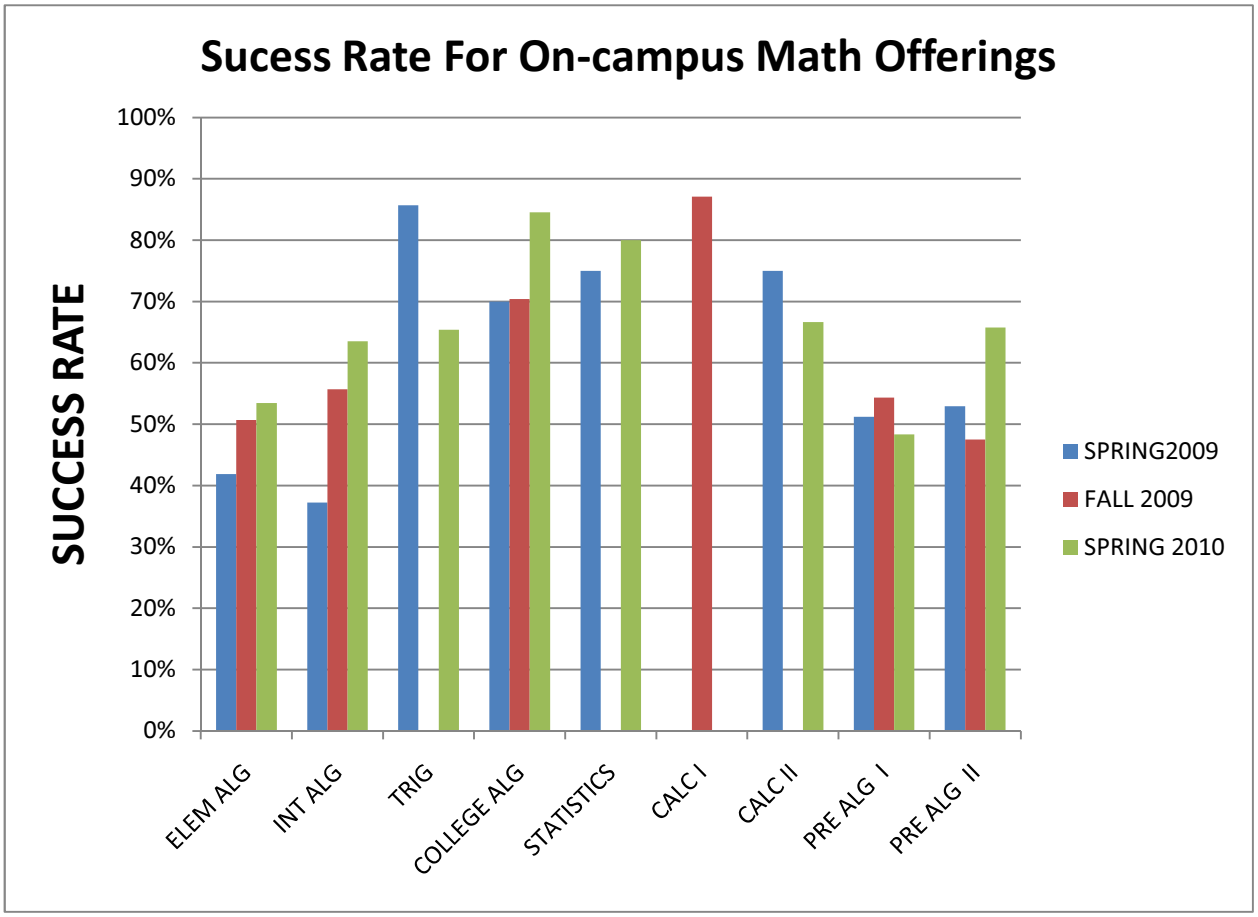
We have expanded our Statistics offerings from Spring Term only to both Fall and Spring.

3. Briefly explain significant changes expected during the upcoming year.

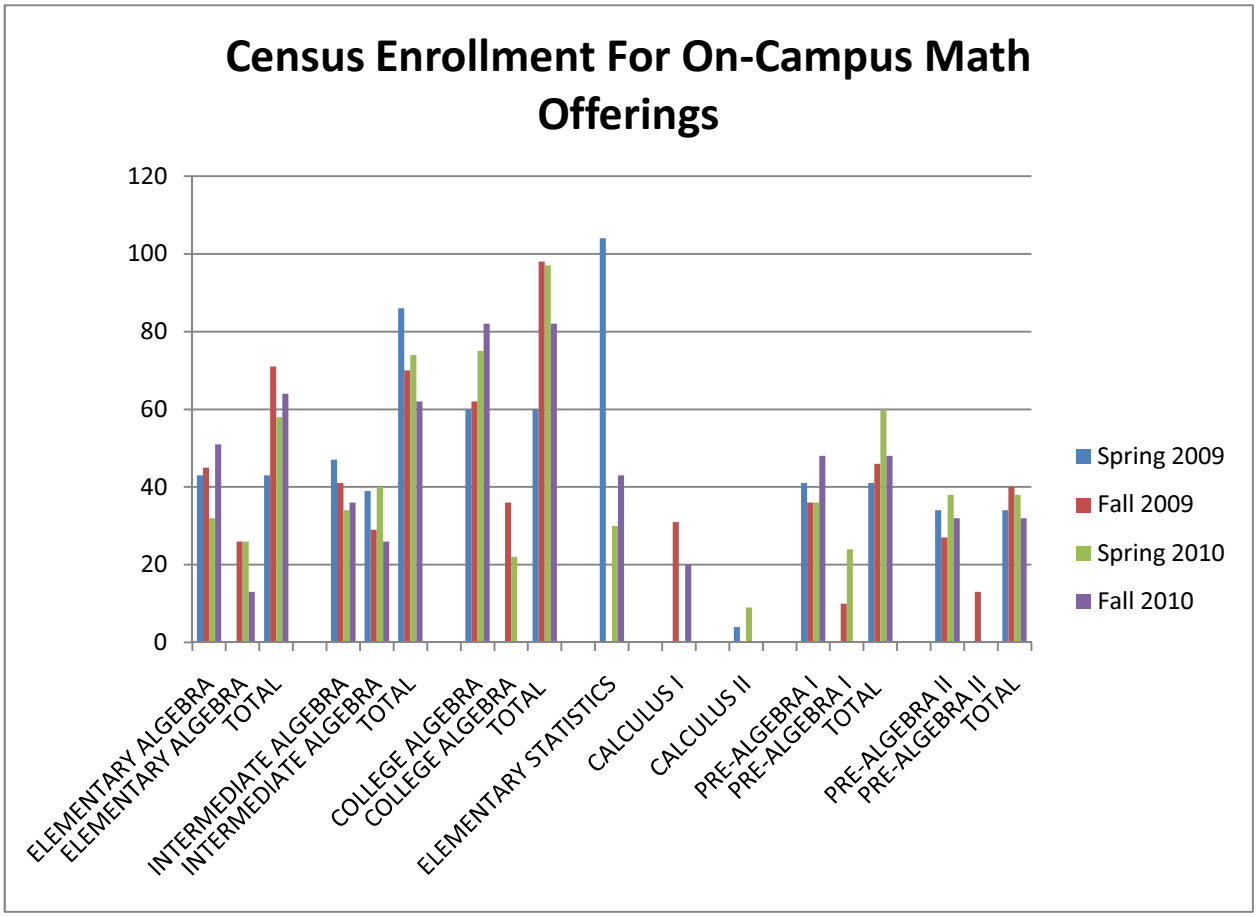
Coordination among part- and full-time faculty will be the main significant change this year to help align math outcomes and courses. We are looking to pilot a student support structure for Pre-Algebra where a supplemental instructor will conduct study group session on the off days (class meets M,W,F ; study groups will meets T and Th), with the hope that this model can improve success and retention in this basic skills course.

APPENDIX

Attach supporting documents as appropriate. Please see Instructions for examples of supporting documents per Management Area.



Row Labels	SPRING '09	FALL '09	SPRING '10	Grand Total
ELEM ALG	42%	51%	53%	49%
INT ALG	37%	56%	64%	51%
TRIG	86%		65%	70%
COLLEGE ALG	70%	70%	85%	76%
STATISTICS	75%		80%	76%
CALC I		87%		87%
CALC II	75%		67%	69%
PRE ALG I	51%	54%	48%	51%
PRE ALG II	53%	48%	66%	55%
Grand Total	58%	60%	67%	62%



ON-CAMPUS CENSUS ENROLLMENT DATA

	Spring 2009	Fall 2010	Spring 2010	Fall 2010
ELEMENTARY ALGEBRA	43	45	32	51
ELEMENTARY ALGEBRA		26	26	13
TOTAL	**43**	**71**	**58**	**64**
INTERMEDIATE ALGEBRA	47	41	34	36
INTERMEDIATE ALGEBRA	39	29	40	26
TOTAL	**86**	**70**	**74**	**62**
COLLEGE ALGEBRA	60	62	75	82
COLLEGE ALGEBRA		36	22	
TOTAL	**60**	**98**	**97**	**82**
ELEMENTARY STATISTICS	104		30	43
CALCULUS I		31		20
CALCULUS II	4		9	
PRE-ALGEBRA I	41	36	36	48
PRE-ALGEBRA I		10	24	
TOTAL	**41**	**46**	**60**	**48**
PRE-ALGEBRA II	34	27	38	32
PRE-ALGEBRA II		13		
TOTAL	**34**	**40**	**38**	**32**
TOTAL ON CAMPUS	372	356	366	351

2011-2012 BUDGET PROPOSAL

RESPONSIBILITY: SUPERINTENDENT/PRESIDENT

FUND CODE: **1100 GENERAL - UNRESTRICTED**
ORGANIZATION CODE: **10100 BOARD OPERATIONS**

FEATHER RIVER COMMUNITY COLLEGE DISTRICT

ACCOUNT CODE	ACCOUNT TITLE (Please provide specific detail supporting *Proposed Budget Requ*	Strategic Planning Goals & Objectives Policy Area (If Applicable)	PRIOR YEAR BUDGET	PRIOR YEAR ACTUAL	PROPOSED BUDGET REQUEST
1100-22120-4310	Mathemaics Instructional Budget Have Math Faculty Attend AMATYC (American Mathematical Association of Two Year College National Conference. ($1200) Currently Working on Project called "New Life in Developmental Mathematics" which is directed at putting CC educators in charge of determining the future of Developmental Mathematics - so our offerings will reflect the current needs of our students. Each Conference, we all meet to discuss our progress. I attended the kick off in 2009 and have much interest in continuing this work. (Wondering about National Council of Teachers of Mathematical Online Membership ($78) which allows for online access to learning resource from the NCTM website. Also to continue using an on-line grading program which allows students to access real-time grades (Webgrade from Micrograde - $25/year)			$ -	$ 1,303
1100-22120-4325	Math Non-Instructional Budget For a Printer Cartridge, AAA Batteries for Clickers		$100	$100	$100

Strategic Planning Goals & Objectives 2008 - 2011

Policy Area 1: Effectiveness of Instruction/Student Development
Policy Area 2: Sustainability/Economic Stability
Policy Area 3: Enrollment Management
Policy Area 4: Decision-Making and Communication
Policy Area 5: Campus Environment
Policy Area 6: Facilities