

**Executive Summary**

This year the Astronomy Department launched the Stars 4 Kids Program to strengthen relations with local elementary grade schools. To date thirty 5<sup>th</sup> grade teachers and their classes from elementary schools in a five mile radius of the college were invited to participate in two hour long planetarium shows, chemistry demonstrations and campus tours. The first two activities are designed to complement the California 5<sup>th</sup> grade science curriculum, the third activity is meant to showcase the college as a place where these students may aspire to begin their college education in general and science education in particular.

The Chemistry Department made a minor dent in staffing goals by hiring the first tenure tract probationary faculty member in ten years. The issue of replacing the demolished chemistry facilities has taxed the patience of faculty, staff and students in this program. Plans to replace the chemistry facility have taken a dreary outlook under current district leadership. The short term arrangement to move the chemistry program into the physics building caused both chemistry and physics programs to become stagnant. The scheduling of classes for both of these disciplines became challenging and counterproductive.

The Technology Department reactivated the Electro Mechanical and Process Plant programs to meet industry and economic development needs in our service area. Demand for these programs to prepare students for petrochemicals jobs has been projected to last at least five years. Drafting, Electronics and Technology programs are expected to occupy the new Technology Building beginning fall 2008.

The Mathematics Department is revamping its course placement process by discarding COMPASS and exploring other math placement instruments. The department will rely on a student self informed decision placement process until another placement instrument is selected. Math faculty will replace the existing three unit college algebra course with a pedagogically improved four unit version spring 2009. For fall 2008 the department is expected to replace one of many faculty retirements that have taken place over the past ten years by hiring a tenure tract probationary faculty member.

The division undertook the assessment of student learning outcomes for all scheduled courses. The division is an active participant in the new Teacher Pathway Program in partnership with California State University Dominguez Hills (CSUDH) and South Bay Center for Counseling (SBCC). The goal of this program is to train students to become future K-6 teachers.

**Activities Description Narrative:** please describe suggested activities, including grant proposals to be written, new course or program initiatives, or program viability studies **in priority order**.

1. Maintain the future of the physical sciences program on the front burner of campus issues.
2. Continue to strengthen partnerships with feeder high schools, local transfer universities and industry. Complete course transition project with HTPA.
3. Apply for Career Technical Education and other economic development grants in partnership with SBCC and CSUDH.

4. Explore new programs in the areas of nanotechnology, industrial design and “alternative fuels”.
5. Obtain additional equipment to complete an electromechanical and a process plant laboratory.
6. Organize the LAHC student’s project for the Department of Water and Power *World Water Conservation Competition*.
7. Assess responses to the Stars 4 Kids Program questionnaire that was distributed to local elementary schools. The outcome will determine the future of this program.

**SLO Assessment Results Narrative:** please describe assessment activities that support proposed unit initiatives.

The assessment of student learning outcomes at the course and program level is presently in progress. A workshop to write assessments for existing courses is scheduled for April 25, 2008.

**Staffing implications:** if any request will require additional classified support or training, please describe its extent.

Energy Pathway program will require additional supervision time in the form of a director. It is estimated that this activity will require at least 15 hours of work per semester. Cost for this position would be covered by grants associated with the program.

**Technology Implications:** if any request involves technology, please describe its impact on the network, licensing, repair, training and support.

Training for the use of new equipment for the Energy Pathway Program is covered in the purchase agreement. Long term repair issues will have to be handled by campus maintenance and operations personnel.

## Unit Plan Activity Summary Sheet

Division MATH-PHY-SCI & TECHAcademic Year 2007-08Division Chair L. J. Mc KENZIE

Discipline ID #	Department Priority (1 to 99)	College Strategy Supported (separate columns if two)		Student Success	Technology Access	Department Objective (link to Program Review)	Proposed Activity	Brief Summary of SLO Assessment Results (See attached forms)	List Other Supporting Documents/Links Attached (E.G., WSCH, Wait Lists, Retention, Environmental Scans)	Resources Required (list faculty, equipment, etc.)	Estimated Total Cost and Source (E.G., Program 100, VTEA, etc.)
		1.3	1.4								
45	1	1.3	1.4	Y		Air the issue as often as possible	Campus leadership makes good on the promise to replace the physical sciences program facilities		Proposed Const Priorities, LACCD A/AA Bond Program Analysis. 08/25/06 Master Plan	Campus leadership	\$20M allocated from Bond AA
45	2	1.4	1.5	Y		Facilitate student learning	Hire a tenure track mathematics instructor			Math Faculty	\$70K from Program 100
45	3	1.4	1.5	Y		Emerging essential skills	Organize "Math Jam" for Summer 2008			M. Zeljak, N. Muro	\$50K from Basic Skills Grant and EOPS
45	4	1.4	1.5	Y		Facilitate student learning	Hire a director for the Energy Pathway Program			L. McKenzie	Grant monies
45	5	1.4	1.4	Y		Emerging need from assessment	Write assessment for course level SLO			All tenured faculty	N/A part of their contractual obligation
	6					Emerging need from	Obtain state approval for AS degree in Process Plant Technology		Occupational Employment Projections Scan	Division Chairperson	N/A

45		1.4	2.1	Y		assessment					
45	7	1.4	2.1	Y		Emerging need from assessment	Modify AS degree in Electromechanical Technology		Occupational Employment Projections Scan	Division Chairperson	N/A
45	8	1.4	1.4	Y			Obtain equipment to complete an electromechanical and a process plant laboratory		Occupational Employment Projections Scan	Division Chairperson	\$100K from Bloc grant, VTEA, private grants and or industry donations
45	9	2.2		Y			High school outreach program and Project Lead the Way. Schedule Drafting and Computer Tech classes at Peninsula HS			C Sutherland, K. Blackburn, Huettemeyer, S. Nakaba	\$5K from Program 100
45	10	1.4	1.4	Y			High school outreach program. Schedule Computer Tech classes at Banning HS			Len Glover, C. Blackburn and C. Nguyen	\$7K from Program 100
45	11	1.4	1.4	Y			High school outreach program. Schedule Computer Science classes at Narbonne and Carson HS			R. Chao and C. Blackburn	\$4K from Program 100
45	12	1.4	1.4	Y			Coordinate student project for DWP <i>World Water Conservation Competition</i>			R. Conn and PPT students	\$10K from DWP
45	13	1.4	1.4	Y		Emerging need from assessment	Develop nanotechnology curriculum			C. Sutherland, M. Song, L. McKenzie	Title V Grant