

Executive Summary

For the 2010-11 academic year faculty in the Math-Phy-Sci and Technology Division will focus on three major projects:

- 1) Assist in preparations for the upcoming college accreditation visit. Course outlines will be updated following Title 5 guidelines. Faculty will volunteer to participate in Accreditation Standards committees.
- 2) Continue to integrate student learning measures into planning. Assess course SLOs that have not yet been assessed to ensure that all course SLOs will be completed in the next 5 years cycle. Participate in the measurement of Program SLOs according to the Assessment Committee plan.
- 3) Write a Title V STEM(Science, Technology, Engineering and Math) grant in collaboration with West LA College

Computer Science Discipline:

Computer Science faculty will review and update curriculum in consultation with the transfer institutions and the Computer Software Pathway Advisory Committee. Develop online courses and scheduling pattern for courses that have not been offered in some time to allow for a wider enrollment and degree completion. Research reasons for low student retention rates through surveys.

Mathematics Discipline:

Math faculty will participate in gathering course data to implement the new AA degree mathematics competency requirement. In addition they will continue to support The Teacher Pathway Program in partnership with other college academic divisions, California State University Dominguez Hills (CSUDH) and South Bay Center for Counseling (SBCC).

Physical Sciences Pathway:

Replacing the demolished chemistry facility has morphed into a more ambitious construction project that now includes life and physical sciences disciplines. Faculty and staff from these will be fully engaged in the design and construction phase of the new Science Complex during the academic year. Faculty in the Astronomy discipline will be engaged in the design phase to refurbish the planetarium facility.

The Stars 4 Kids Program is currently on hold due to renovation of the planetarium facility.

The request to replace the Chemistry Laboratory Technician who transferred to City College has been granted by the College Staffing Committee and approved by the College President and District Chancellor.

The Physics Discipline will continue its collaboration with HTPA in scheduling transition courses.

Technology Pathway

The current national economic slump has created a minor enrollment surge in Drafting, Electronics and Engineering Technology disciplines. Through the Energy Pathway Program, the Division continues to meet local refinery demand to prepare students to fill petrochemical jobs, as well as to offer short term training, funded by a

DOL grant, for incumbent refinery workers. Curriculum development in “green technology” proceeds cautiously due to a tenuous job market.

Faculty will continue to collaborate with Arcadis in the enhancement of the New Technology Building, addressing structural issues such as electrical power for laboratories and storage space.

The Drafting and Computer Tech disciplines will continue to reinforce their partnership with Banning High School by offering afternoon outreach classes. The Energy Pathway Program will explore a curriculum development partnership in “alternative energy” with Carson High School.

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. Update course outlines dated 2004 or earlier
2. Write a Title V STEM Grant in partnership with WLA College
3. EL/CT/ET would like to set up an advisory committee meeting to be held during summer break. Feedback from this meeting could then be used in the program review study. Faculty would like to pursue certification in COMPTIA network+, server+, Linux+, Cisco systems.

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

1. As of March 2010, course assessment completion for the division is at about 14% (see report). This will increase after Spring semester results are in. If we measure 20% per year for the next 5 years, a 6 year cycle will be complete.
2. Create curriculum maps for the Math, Physical Science, Drafting and Engineering Pathway. (NOTE: THIS ASSUMES THAT THE PROGRAM SLOS ARE WRITTEN FOR DRAFTING, ENGINEERING AND PYS SCI BY THE END OF THIS YEAR)
3. Develop and deliver measures for campus-wide program assessment as directed by the Program Assessment Committee.
4. Develop SLOs and maps for pre-college math program.

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

Request replacements of Mathematics and Physical Sciences faculty. Chemistry is down to two (2) tenured faculty, Mathematics Department is down to five (5), Physics is down to one (1) and Astronomy is down to zero (0).

This is below the level of full-time faculty necessary to support course and program assessment efforts. Contractually adjunct faculty are not required to develop means of assessment or evaluate results needed for assessment reports, leaving tenured faculty with the responsibility to coordinate the entire cycle. The EL/CT/ET Dept would like to add another faculty member in order to upgrade into the Industrial Automation area and expand COMPTIA course offerings during the daytime hours. We have been running 3 FTEF for several years and have only one FTE member

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. Explore avenues for long term repair/service agreements for existing equipment and replacement of old equipment.

EL/CT would like to upgrade current instructional hardware, software and tool kits for fiber optic and digital classes.

Unit Plan Activity Summary Sheet

Division MATH-PHY-SCI & TECH

Academic Year 2007-08

Division 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.)
45	1		Y	N	2. Areas for reinforcement: d. continue focus on assessment and commitment to implement findings and recommendations	Faculty participation in accreditation committee standards Faculty participation in curriculum update. Course outlines dated 2005 or earlier need to be reviewed Faculty participation in SLO assessment, mapping SLO, PLO and ILO's	As of March 2010, course assessment completion for the division is at about 14% (see report). This will increase after Spring semester results are in. If we measure 20% per year for the next 5 years, a 6 year cycle will be complete.	http://www.lahc.edu/facfiles/FactBook2005/17%20AACreditation%20192-195.pdf http://ecd.laccd.edu/	Division faculty, E. Joiner, J. Stanbery Division Faculty. Curr. Comm. workshops	N/A N/A
45	3		Y	N		Faculty participation in a Title V STEM Grant in partnership with WLA College	There is no SLO data to support these activities	http://www.lahc.edu/facultystaff/slo/courseassessment.html	Division Faculty. Assessment Comm. workshops	N/A
45	4		Y	Y	2. Areas for reinforcement: b. Increase focus on professional development			http://www.sulross.edu/pages/6746.asp http://www2.ed.gov/prgrams/innovative/index.html	Division faculty, R. Richards, WLA College	N/A
45	5		Y	Y		Schedule EL/CT/ET advisory committee meeting during summer 2010.			Dept faculty	N/A

