

Los Angeles City College  
Comprehensive Program Review 2008

Physics/Engineering Department

**IX. Planning and Budgeting**

**b. Past Planning Goals**

Year	Goal #	Description	Relation	Actions Relation	Outcome	Progress
2002	1	Increase student retention in Physics 1, 2, 3, and 4	Priority 4: Creating a student centered learning environment. ..	Introduction of Physics 101,102, & 103	A successful transition to the Physics 101, 102, 103 sequence has been made, and enrollments have increased as expected.	This is an ongoing project of the department. Thought, time and effort continue to be put into increasing enrollments and retaining students in our core Physics sequence. However it is recommended that this goal be dropped as an official 'goal' of the department, since there is no final point when this goal can be considered completed.
2002	2	Implement 'active learning' style of instruction for physics and astronomy courses. Improve student retention and satisfaction.	Priority 4: Creating a student centered learning environment. ..	Entire full time faculty attended a weeklong workshop on activity based physics	The classes will incorporate activity based learning opportunities	Much progress has been made to implement active learning approaches to teaching Physics and Astronomy...

## b. Past Planning Goals

Year	Goal #	Description	Relation	Actions Relation	Outcome	Progress
2002	3	Planning of the new science building including efforts to make classrooms more academically inspiring and motivational.	Priority 2: Maintain and enhance a safe, aesthetically pleasing campus...	Lots of meetings!!!	The department will have suitable accommodations in the future	This goal is near completion since the plans for the new Sci Tech building are pretty much finalized.
2004	4	Expand the number and variety of courses offered in the discipline of astronomy to accommodate the increasing demand and interest in the discipline.	Priority 1: Fostering a culture of excellence	Every opportunity to offer the classes have been siezed and the course materials has been updated to make them more engaging.	Increase in the number of astronomy sections	Good progress has been made. Course Outlines for Astronomy 10 and Astronomy 11 have been approved. Astronomy 11 is regularly offered, while Astronomy 10 is occasionally offered.
2004	5	The Physics department intends to increase the enrollment in the engineering courses being offered, to expand the number of engineering courses being offered as appropriate and to develop more support systems and opportunities for students studying engineering at LACC.	Priority 1: Fostering a culture of excellence...	A number of efforts have been made such as starting an Engineering Club, running orientations for engineering students, distributing flyers, and running high school outreach classes.	Increase in enrollment in engineering classes	It is a difficult task, but strong progress has been made in increasing enrollments in Engineering courses and in revitalizing the Engineering discipline on campus.

## b. Past Planning Goals

Year	Goal #	Description	Relation	Actions Relation	Outcome	Progress
2004	6	The Physics department intends to put all of its lab manuals (some of which have experiment write ups that date back to the 1950's) in electronic form on the computer so that the manuals can be more easily updated, edited, printed and published. The department intends to continue selling the lab manuals to the bookstore which in turn sells the manuals to the students. The sale of the manuals to the bookstore will provide the department with a small but steady income stream to supplement the relatively low supply and equipment budget allotted to the department by the college.	Priority 1: Fostering a culture of excellence...	Most of the lab manuals are now maintained in electronic form	All lab manuals are maintained in electronic form	Progress has been made, but difficulties remain in getting the lab manuals properly copied and ready for sale. The department is considering placing the materials online.
2004	7	Management, consolidation and expenditure of department endowment and scholarship funds	Priority 7: Efficient allocation of resources...	Meetings were held with the business office and the foundation to explore possibilities and implement a plan	Accounts consolidated as efficiently as possible	The department is very fortunate to have several endowments that help fund scholarships, equipment and other activities that benefit the students here at LACC. The scholarships are all well managed by the LACC Foundation. This goal can be considered completed.

### b. Past Planning Goals

Year	Goal #	Description	Relation	Actions Relation	Outcome	Progress
2004	8	Inventory Update	Priority 7: Efficient allocation of resources...	The entire inventory has been reviewed, obsolete equipment has been properly disposed of and modern equivalents purchased.	Inventory is organized and maintained	Department inventories are up to date, yet continued efforts are needed to keep the inventories current. The department has developed an electronic inventory database that will be implemented shortly.

### e. New Planning Goals

Describe departmental planning goals for the next 6 years, explaining how they support the various college plans, including:

- *Strategic Priorities of the College's Strategic Plan:*  
[http://www.lacitycollege.edu/public/strategic\\_planning.htm#strategicplan](http://www.lacitycollege.edu/public/strategic_planning.htm#strategicplan)
- *Educational Master Plan:*  
<http://www.lacitycollege.edu/public/EduMasterPlan.pdf>
- *Technology Master Plan:*  
[http://www.lacitycollege.edu/resource/oac/IT\\_Plan\\_Draft03.pdf](http://www.lacitycollege.edu/resource/oac/IT_Plan_Draft03.pdf)

#### New Planning Goals

Year	Goal #	Description	Relation	Outcome
2008	1	Continue to be strong partners with the Dean of Outreach to revitalize science education at the high school level in order to create a pipeline for advanced classes.	Goal A: Expand Student Access—Awareness and Opportunity  A1.1	Maintenance and increase of outreach course offerings.

### New Planning Goals

Year	Goal #	Description	Relation	Outcome
2008	2	Contribute to the success of the NE Campus by offering appropriate classes in basic physics, astronomy, and engineering.	Goal A: Expand Student Access— Awareness and Opportunity A1.4	Offer Physics 11, Physics 12, Astronomy 1, Astronomy 5, and Engineering 101 classes at the NE Campus starting Fall 2009 with good enrollments.
2008	3	Identify potential on-line offerings and deploy with high quality materials	Objective B.1 Increase General Education degrees and transfer to four year colleges B1.5	Online courses will be offered by the department
2008	4	Incorporate sustainability into the curriculum and create specific courses on sustainability issues	EdMasterPlan: Goal 1: Develop and deliver instructional programs tailored to meet the needs of our prime constituencies	Most courses will be reviewed to determine how sustainability can be integrated into the curriculum. New courses will be created.

### f. New Action Plans and Special Projects

*Describe the specific action plans and special projects that will be undertaken during the next 6 years to achieve the goals described above. There should be at least one action plan for each goal listed, and there may be more than one action plan for a goal. Plans and projects may include curriculum and program development, establishment of new labs or facilities, outreach and recruitment efforts, public/private partnerships, etc. Include estimated costs and projected time lines for implementation. You can add as many New Action Plans and Special Projects as desired.*

### New Action Plans and Special Projects

Year	Goal #	Project #	Project Name	Planned Activities	Individuals Responsible	Expected Outcomes	Projected Costs*	Total Cost	Project Start Date	Project End Date
2008	1	1	Outreach	Work closely with outreach Dean and high schools to identify and deploy outreach classes.	Chair of Department Dean of Outreach	Maximum use of outreach opportunities.	Equipment costs: Many high schools do not have sufficient lab equipment. Labs will have to be devised so that the required equipment can be easily transported to site. The cost of the equipment is expected to be \$16,000 to obtain 2 additional sets of equipment.	\$16,000	10/20/2008	10/20/2010
2008	2	2	NE Campus	Run Physics 11, Physics 12, Astronomy 1, Astronomy 5, and Engineering 101 classes at the NE campus	Chair of Department Daryl Kinney	The said classes will run regularly with good enrollment	Equipment : Astronomy : \$45,000 Physics: \$ 12,000	\$57,000	10/20/2008	9/1/2009

### New Action Plans and Special Projects

Year	Goal #	Project #	Project Name	Planned Activities	Individuals Responsible	Expected Outcomes	Projected Costs*	Total Cost	Project Start Date	Project End Date
2008	3	3	Online courses	create online course offerings and augmentation of online learning materials	Chair of Department Faculty TBD	Courses suitable for being offered online will be identified and materials developed. Materials to enable asynchronous learning within other traditional classes will also be developed	Multimedia Development Software: \$1150	\$1150	10/20/2008	1/9/2010
2008	4	4	Incorporating Sustainability	Review courses to determine which areas can benefit by being linked to sustainability. Develop and market a new course in sustainable technology.	Chair of department	Sustainability will be infused throughout the curriculum and courses in sustainable technology that meet GED science requirements will be created.	Lab development: \$12,000	\$12,000	10/20/2008	1/9/2010

*\*Projected Costs*

1. Faculty Requirements/Costs
2. Staff Requirements/Costs
3. Equipment Requirements/Cost
4. Facilities Requirements/Costs
5. Other Requirements/Costs