Palomar College – Institutional Review and Planning Instructional Programs

Purpose of Institutional Review and Planning:

The institution assesses progress toward achieving stated goals and makes decisions regarding the improvement of institutional effectiveness in an on-going and systematic cycle of evaluation, integrated planning, resource allocation, implementation, and re-evaluation. Evaluation is based on analyses of both quantitative and qualitative data (ACCJC/WASC, Standard I, B.3.)

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Instructional Discipline Reviewed

2007-08

1. 3-year trend of quantitative data

	Fall 2004	Fall 2005	Fall 2006	Definitions
Enrollment at Census	544	471	490	Self Explanatory
Census Enrollment Load %	80.24%	74.60%	69.01%	Enrollment at Census Divided By Sum of Caps (aka "Seats")
WSCH	1,765	1,531	1,608	Weekly Student Contact Hours
FTES	58.83	51.03	53.58	One Full-Time Equivalent Student = 30 WSCH
Total FTEF	4.47	4.27	4.63	Total Full-Time Equivalent Faculty
WSCH/FTEF	395	359	347	WSCH Generated per Full-Time Equivalent Faculty Member
Full-time FTEF	1.80	1.80	2.20	FTEF from Contract Faculty
Hourly FTEF	2.00	2.20	1.60	FTEF from Hourly Faculty
Overload FTEF	0.67	0.27	0.83	FTEF from Contract Faculty Overload
Part-Time FTEF	2.67	2.47	2.43	Hourly FTEF + Overload FTEF
Part-Time FTEF %	59.70%	57.81%	52.52%	Percent of Total FTEF Taught By Part-Time Faculty
Retention Rate	89.45%	89.73%	91.82%	Non-W Grades (A,B,C,CR,D,F,FW,NC) Divided By A,B,C,CR,D,F,FW,NC,W Grades
Success Rate	62.50%	62.50%	63.18%	A,B,C,CR Grades Divided By A,B,C,CR,D,F,FW,NC,W Grades
Degrees Awarded	-	-	1	Total number of Degrees awarded for the Full Academic Year
Certificates Awarded:	-	-	-	Total number of Certificates awarded for the Full Academic Year
- Under 18 Units	-	-	-	Total number of Certificates awarded for the Full Academic Year
- 18 or More Units	-	-	-	Total number of Certificates awarded for the Full Academic Year

2. Reflect upon and analyze the above 3-year trend data. Briefly discuss overall observations and any areas of concern or noteworthy trends.

Fall 2004 was the last year we had three classes of Physics 120 and six corresponding labs without any increase of supply budget. We were lead to believe the increase of our budget if we increased the number of offerings. We intentionally cut back the number of offerings to maintain the quality of physics labs. Both retention rate and success rate have increased. Both the Physics 120 and 200 programs are poised for growth if support resources are made available.

3. Reflecting on the 3-year trend data, describe/discuss discipline planning related to the following:

ing related to the following:
Progress – 2008-09

4. Discuss/identify the resources necessary to successfully implement the planning described:

PLAN – 2007-08	Progress – 2008-09
	riugiess = 2000-03
a. Equipment/Technology – block grant funds, VTEA, other resources,	
etc.	
We will try to add a computer acquisition system (such as Pasco) to	
Physics 101L. This will allow faster and more accurate data collections.	
NS245 needs new computers and data acquisition systems. The current	
setups are surplus computers from IS and 8 year old DAQ systems. At	
least are computer feile each competer equains discussion of laborators	
least one computer fails each semester causing disruption of labs. The	
DAQ systems require old serial ports no longer supported on new	
computers and are beginning to fail.	
b. Budget – budget development process, one-time funds, grants, etc.	
NS255 will be remodeled to a lecture/lab room. The room needs basic	
measuring devices such as electronic scales (0 – 1000.00 g with 1/100 g	
accuracy), triple beam scales, stop watches, meter sticks, two meter	
sticks, 50-m tape measures, straight edge rulers, protractors,	
compasses.	
c. Facilities – schedule maintenance needs, additional classrooms/labs	
due to growth, remodeling, etc.	
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d. Faculty position(s) – faculty priority process and projected full-time	
needs for 1 – 3 years	
We do not plan to hire a physics instructor, but we desperately need to	
hire a physical science instructor to oversee the program since there is	
no full time instructor to do so.	
e. Staff position(s) – changes in instructional or support needs due to	
program growth, new technology, etc.	
At this point, we have to share a person with Earth Sciences	
Department, but we do need a full time Physics/Engineering lab	
technician to service/maintain/fix old/new equipment. Some of them are	
old and irreplaceable, but still very valuable for students to understand	
important physics concepts.	

f. Other	

b. Discuss one discipline goal linked to Palomar's Strategic Plan 2009 and now it will support the success of students.
We have a better communication with CSUSM Physics Department so that our PHSC, Physics, and engineering students now have smooth transfer to their programs
 Student Learning Outcome progress: a. Describe a learning outcome at the course or program level and the assessment used to measure student learning of that outcome. All of our students who took Physics 230 series successfully transfer to four-year-universities including SDSU, UCSD, UCLA, UC Berkeley, CalPoly in SLO, Cal-Tech, etc.
b. Discuss a learning outcome that is observable yet difficult to measure.
Upon transfer to four-year-universities, our students seem to perform well in physics & engineering majors. They come back to Palomar to tell us how well they are adapting new environment and perform well in those big schools. So far, we have never had a student who came back and told us that he/she could not perform well in the new environment.

7. Describe a discipline accomplishment that you want to share with the college community.						
Our department started "Engineering Club". For detail, please see Engineering's Institutional Review and Planning.						
3. Are there other resources (including data) that you need to complete your discipline review and planning?						
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Are there other resources (including data) that you need to complete your discipline review and planning? Our allocated budget seems to be lower than other departments' budget according to WSCH percentage.						

9.	For programs with an external accreditation, indicate the date of the last accreditation visit and the recommendations.	d discuss recommendations and pro-	gress made o -		
10 (Other comments, recommendations:				
10. \	Strict comments, recommendations.				
Please identify faculty and staff who participated in the development of the reviewer's planning:					
Dep	artment Chair/Designee Discipline Review and Signature	Date			
Divi	sion Dean Review and Signature	Date			

^{*} By no later than <u>2/14/08</u>, forward a hard copy to Instructional Services for review by IPC.

^{*} Also, by no later than <u>2/14/08</u>, forward an electronic copy to Institutional Research and Planning.