

# Peralta Community College District

## UNIT PLAN UPDATE Template ~ November 2009

Each discipline will complete this form to update the unit plans developed in 2008. These will be reviewed at the college level and then forwarded to the district-wide planning and budgeting process. The information on this form is required for all resource requests – including faculty-staffing requests – for the 2010-11 budget year.

### I. OVERVIEW:

		<b>Date Submitted:</b>	11-15-09
<b>Discipline</b>	Physical Sciences - Physics	<b>Dean:</b>	Dr. Rebecca Kenney
<b>Department Chair</b>	Ray Chamberlain		
<b>Mission/ History</b> <i>Brief, one paragraph</i>	<b>This program offers courses for transfer students and students with an interest in Physics.</b>		

### II. EVALUATION AND PLANNING

Please review the program review data and the CSEP review criteria and complete the following matrix.

#### Baseline Data

Annual Trend Baseline Data					
Year	Annual FTES	%FTES growth	FTEF in program	FTES /FTEF	Comments
2008/09	34.94	2.3%	2.93	11.92	Growing
2007/08	34.13	15%	3.95	8.64	
2006/07	29.77	-9%	2.78	10.70	
2005/06	32.57	n/a	3.46	9.41	

	Fall						
	2004	2005	2006	2007	2008	CODE	Comments
<b>Quantitative Assessments</b>							
1. Enrollment (duplicated)	85	74	80	67	110		<b>Growing</b>
2. Sections (master sections)	4	4	4	5	5		
3. FTEF	1.51	1.51	1.65	1.74	1.39		<b>Steady</b>
4. FTES	18.63	16.07	16.97	13.13	18.53		<b>Growing</b>
5. FTES/FTEF	12.34	10.64	10.28	7.55	13.35		<b>Increasing</b>
7. Program Cost (Cost methodology is under development. Please complete the remaining items. This step to be completed later.)							

<b>Qualitative Assessments</b>	Narrative
8. Community and labor market relevance Present evidence of community need based on Advisory Committee input, industry need data, McIntyre Environmental Scan, McKinsey Economic Report, etc. This applies primarily to career-technical (i.e., vocational programs).	<b>The California Occupational Projection for 2002-2012 projects a 23% increase in the number of Physical Science Technicians. This program supports the Physical Sciences and mathematics programs in the district.</b>

9. College strategic plan relevance	
Check all that apply <input type="checkbox"/> New program under development <input checked="" type="checkbox"/> Program that is integral to the college's overall strategy <input checked="" type="checkbox"/> Program that is essential for transfer <input type="checkbox"/> Program that serves a community niche. <input type="checkbox"/> Programs where student enrollment or success has been demonstrably affected by extraordinary external factors, such as barriers due to housing, employment, childcare etc. Other _____	

Action Plan Steps to Address CSEP Results

Please describe your plan for responding to the above data. Consider curriculum, pedagogy/instructional, scheduling, and marketing strategies. Also, please reference any cross district collaboration with the same discipline at other Peralta colleges.

10. ACTION PLAN -- Include overall plans/goals and specific action steps.

**Program needs to hire a full time instructor to lead the Astronomy/Physics program. Twelve years ago the college went without a full time instructor. In those three years the number of students dropped significantly. Most went to Laney and COA which both have good full time instructors.**

**Use SLO Mapping to identify courses that overlap with program and work with certificate and vocational programs.**

**Offer more courses off campus at high schools and businesses.**

**Additional Planned Educational Activities**

11. Health/safety/legal issues:

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**Student Learning Outcomes (SLOs)  
2008/09**

12. Have you completed Student Learning Outcomes (SLO's) for all your courses?

YES

NO

12a. If you answered no to question 12 then, what percentage have you completed?

13. What are you assessing this year? Please attach your assessment results and action plan. List needed resources in Section III of Unit Plan.

course outcomes  
 program outcomes  
 institutional learning outcomes

<b>BUDGET</b>			
<b>Budget Categories</b>	<b>Allocated 08/09</b>	<b>Expended 08/09</b>	<b>Requested 09/10</b>
<b>Fund 1</b>			
<b>Fund 14</b>	\$1000	\$1038.08	<b>\$ 1,000</b>
<b>Fund 17</b>	\$25	\$2.16	<b>\$ 500</b>
<b>Measure A</b>			
<b>VTEA</b>			
<b>Total</b>	\$1025	\$1035.92	<b>\$ 1,500</b>

<b>ADDITIONAL REVENUE: GRANTS, PRIVATE SALES, AND DONATIONS</b>			
<b>Name of Grant/Donation/Sale</b>	<b>Awarded/Generated 08/09</b>	<b>% Expended 08/09</b>	<b>Comments</b>

<b>PERSONNEL NEEDS 09/10</b>									
<b>Personnel DATA</b>	<b>CD Enrl F2008</b>	<b>Tot FTES F2008</b>	<b>Contract FTEF F2008</b>	<b>Ext Srv FTEF F2008</b>	<b>Tmp FTEF F2008</b>	<b>Total FTEF F2008</b>	<b>Contract %</b>	<b>FT/PT</b>	<b>FTES /FTEF</b>
		110	18.53	0.0	0.0	1.40	1.40	0%	
<b>Comments</b>									
<i>Current</i> <b>Full time Astronomy/Physics instructor</b>				<i>If filled</i>	<i>If not filled</i>	<b># FTE (faculty assigned)</b>			
<p><i>Narrative: Are PT faculty available? Can FT faculty be reassigned to this program?</i>  <i>Implications if not filled</i>  <b>Yes, no.</b></p> <p><b>Implications are that students will move to Laney or COA possibly causing a complete failure of those two disciplines at Merritt.</b></p>									
<p><i>Faculty Staff Requests 2010-2011:</i></p> <p><b>Full time Astronomy/Physics instructor</b></p>									

**FACULTY ETHNICITY**

**F2008**

<b>Ethnicity</b>	<b># of Contract</b>	<b># of Adjunct</b>	<b>Total</b>
Asian			
African American			
Filipino			
Hispanic/Latino			
Native American			
Other			
White		4	4
Unknown			
<b>Total</b>		4	4

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**FACULTY GENDER  
FALL 2008**

<b>Gender</b>	<b># of Contract</b>	<b># of Adjunct</b>	<b>Total</b>
Male		3	3
Female			
Not Supplied		1	1
<b>Total</b>		4	4

**RESOURCE NEEDS****Equipment/Material/Supply/ Classified/Student Assistant Needs:**

Please describe any needs in the above categories.

Equipment is adequate but needs a full time instructor to evaluate future needs.

**Facilities Needs (Items that should be included in our Facilities master Plan) for Measure A funding:**

Please describe any facilities needs.

**IV. ACADEMIC PERFORMANCE MEASURES AND EQUITY**

Student Demographics: Ethnicity			
Ethnicity	Physics Baseline Fall 04-07	Physics Fall 08	College Average

Asian	29%	18%	16%
African American	22%	12%	36%
Filipino	2%	1%	3%
Hispanic/Latino	7%	28%	14%
Native American	0%	1%	1%
Other	2%	2%	2%
White	29%	25%	21%
Unknown	8%	13%	6%

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Student Demographics: Gender Physics			
Gender	Physics Baseline Fall 04-07	Physics Fall 08	College Average
Male	53%	49%	31%
Female	44%	42%	69%
Not Supplied	3%	10%	0%

Analysis
1. What are you doing to increase access? <b>Nothing</b>

Student Retention Rate: Ethnicity <i>Students who receive a grade other than withdraw</i>		
Ethnicity	Physics Baseline Fall 04-07	Physics Fall 08
African American	62%	60% (15)
Asian	76%	91% (23)
Filipino	43%	0% (1)

Hispanic/Latino	55%	88% (33)
Native American	100%	0%
Other	67%	100% (2)
White	71%	72% (29)
Unknown	83%	67% (6)
<b>Physics Average</b>	70%	79% (109)
<b>College Average: 72%</b>		

<b>Student Retention Rate: Gender</b>		
<b>Physics</b>		
Gender	Physics Baseline Fall 03-07	Physics Fall 08
Female	69%	76% (46)
Male	71%	85% (55)
Not Supplied	50%	50% (8)

<b>Analysis</b>
<p>1. If your disciplines retention rate is beneath the colleges rate, then why?  <b>Physics is a very difficult subject and students do not come into the class with adequate math skills.</b></p>
<p>2. If your retention rate is below the college rate, then what are you doing to increase retention?  <b>Tutoring students outside of class early in the semester to increase math ability.</b></p>
<p>3. If your retention rate is above the college's rate do you have any best practices to share?</p>

<b>Student Course Completion Rate (SCCR): Ethnicity</b>		
<i>Students who receive a grade A,B,C or Credit</i>		
Ethnicity	Physics Baseline Fall 04-07	Physics Fall 08
African American	46%	47% (15)

Asian	72%	74% (23)
Filipino	29%	0% (1)
Hispanic/Latino	50%	61% (33)
Native American	100%	0%
Other	67%	100% (2)
White	70%	62% (29)
Unknown	78%	67% (6)
<b>Physics Average</b>	64%	62% (109)
<b>College Average: 60%</b>		

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<b>Student Successful Course Completion Rate (SCCR) by Gender</b>		
Gender	Physics Baseline Fall 04-07	Physics Fall 08
Female	65%	54% (46)
Male	64%	73% (55)
Not Supplied	40%	38% (8)
College Average	64%	62% (109)

<b>Analysis</b>
<p>1. If your disciplines successful course completion rate (SCCR) is beneath the college's rate, then why?  <b>Physics is a very difficult subject and students do not come into the class with adequate math skills.</b></p>
<p>2. If your sccr is below the college rate, then what are you doing to increase it?  <b>Tutoring students outside of class early in the semester to increase math ability.</b></p>
<p>3. If your sccr is above the college's rate do you have any best practices to share?</p>