

# Peralta Community College District

## UNIT PLAN UPDATE Template ~ September 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 and staffing requests – for the 2010-11 budget year.

### I. OVERVIEW:

		<b>Date Submitted:</b>	11/19/09
<b>Discipline</b>	Physical Sciences – Geology	<b>Dean:</b>	Dr. Rebecca Kenney
<b>Department Chair</b>	Dr. Chamberlin		
<b>Mission/ History</b> <i>Brief, one paragraph</i>	<p><b>It is the primary mission of Geology Program at Merritt College to teach students about the evolution of the earth and foster in them an appreciation and understanding of the processes affect Earth. These courses are taught using classical instruction, and laboratory and fieldwork that emphasizes critical thinking. Student mastery is demonstrated in their ability to think and write critically about the Earth in a capstone report.</b></p> <p><b>The Geology Program has been taught at Merritt College since the 1960's and it was initially part of the Environmental Studies Program.</b></p>		

### II. EVALUATION AND PLANNING

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

Annual Trend Baseline Data					
Year	Annual FTES	%FTES growth	FTEF in program	FTES /FTEF	Comments
2008/09	12.67	6%	1.20	10.56	There is a gradual increase in productivity.
2007/08	12.0	22%	1.25	9.60	
2006/07	9.84	8%	.71	13.86	
2005/06	9.15		1.04	8.80	

	Fall					CODE	Comments
	2004	2005	2006	2007	2008		
<b>Quantitative Assessments</b>							
1. Enrollment (duplicated)	61	25	17	14	40		Enrollment has decreased since 2004 but in 2008 it increased.
2. Sections (master sections)	2	3	1	1	1		Steady drop in sections offered
3. FTEF	.50	.70	.35	.35	.36		FTEF is steady
4. FTES	9.46	5.67	4.08	3.36	4.26		FTES is steady
5. FTES/FTEF	18.93	8.10	11.66	9.60	11.83		Productivity has increased slightly since 2007.
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>According the California Employment Development Department, The occupational projection of employment for Geoscientist is expected to grow 4.9% by the year 2016.</b>

9. College strategic plan relevance	
Check all that apply <input type="checkbox"/> New program under development <input checked="" type="checkbox"/> <b>Program that is integral to the college's overall strategy</b> <input checked="" type="checkbox"/> <b>Program that is essential for transfer</b> <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.

**Goal 1: Develop a research plan to explore the science needs of Basic Skills students and use this research to create an interdisciplinary science course to support Basic Skills students and faculty.**

**Action Steps:**

**Step #1: Develop a research plan to determine the science needs of Basic Skills student by asking them.**

**Step #2: Use the data from step 1 to determine which programs to include in the creating an interdisciplinary course.**

**Step #3: Recruit faculty to develop the course**

**Step #4: Work with faculty to develop an interdisciplinary science course that meets the educational goals of Basic Skills students based on research collected from the students**

**Step #5: Pilot the course**

**Step #6: Collect data from the pilot course**

**Step #7: Determine next steps**

**Step #8: Publish research in a journal.**

**Additional Planned Educational Activities**

11. Health/safety/legal issues:	Classroom laboratory stools and tables are old and damaged. Some students have fallen out of the old stools and cut themselves on the edges of tables in the classroom.
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Student Learning Outcomes (SLOs) 2008/09		
12. Have you completed Student Learning Outcomes (SLO's) for all your courses?	YES <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
12a. If you answered no to question 12 then, what percentage have you completed? All course and program SLO's are 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.	<input checked="" type="checkbox"/> course outcomes <input checked="" type="checkbox"/> program outcomes <input type="checkbox"/> institutional learning outcomes	

BUDGET			
Budget Categories	Allocated 08/09	Expended 08/09	Requested 09/10
Fund 1			
Fund 14			\$7000
Fund 17	\$175	0	\$500
Measure A			
VTEA			
<b>Total</b>	\$175	0	\$500

ADDITIONAL REVENUE: GRANTS, PRIVATE SALES, AND DONATIONS			
Name of Grant/Donation/Sale	Awarded/Generated 08/09	% Expended 08/09	Comments
None			

PERSONNEL NEEDS 09/10									
Personnel DATA	CD Enrl F2008	Tot FTES F2008	Contract FTEF F2008	Ext Srv FTEF F2008	Tmp FTEF F2008	Total FTEF F2008	Contract %	FT/PT	FTES /FTEF
		40	4.26	0.36	0.00	0.00	0.36	100%	
<b>Comments</b>									
<i>Current</i> Program does not need a part-time instructor.				<i>If filled</i>	<i>If not filled</i>	# FTE (faculty assigned)			
<p><i>Narrative: Are PT faculty available? Can FT faculty be reassigned to this program? Implications if not filled</i></p> <p><b>Currently there is no part-time faculty teaching in the Geology Program.</b></p>									
<p><i>Faculty Staff Requests 2010-2011:</i></p> <p><b>None.</b></p>									

FACULTY ETHNICITY F2008			
Ethnicity	# of Contract	# of Adjunct	Total
Asian			
African American	1		1
Filipino			
Hispanic/Latino			
Native American			
Other			
White			
Unknown			
<b>Total</b>	<b>1</b>		<b>1</b>

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FACULTY GENDER FALL 2008			
Gender	# of Contract	# of Adjunct	Total
Male			
Female	1		1
Not Supplied			
<b>Total</b>	<b>1</b>		<b>1</b>

RESOURCE NEEDS
<b>Equipment/Material/Supply/ Classified/Student Assistant Needs:</b>
Please describe any needs in the above categories.
<b>Research Needs:</b> (1) release time to develop an interdisciplinary basic skills science course, (2) funding to conduct research into the science needs of Basic Skills students, (3) earth science equipment and models for this course that emphasis hands-on examination and in-depth exploration of Earth Science topics.
<b>Classroom Needs:</b>
(1) New wall maps – current map are 30-years old and held together with tape.
(2) New mineral and rock kits – current kits have up to 25% of the samples missing!
(3) Updated laboratory equipment: microscopes, weight scales, chemicals, and models.
(4) New dvds
(5) New projector for computer
(6) Scanner and printer

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

Please describe any facilities needs.

Ergonomic Laboratory Chair Composite Base (\$358) from BizChair.com= 358 x 35 = \$13,000  
36H Solid Phenolic Top with Double Bookbox (60"Lx42"W) (\$775) = 775 x 8 = \$7000  
Perimeter Workstation \$4000

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#### IV. ACADEMIC PERFORMANCE MEASURES AND EQUITY

Student Demographics: Ethnicity			
Ethnicity	Baseline Fall 04-07	Fall 08	College Average
African American	32%	25% (5)	36%
Asian	6%	15% (3)	16%
Filipino	3%	0%	3%
Hispanic/Latino	10%	10% (2)	14%
Native American	2%	0%	1%
Other	2%	5% (1)	2%
White	35%	35% (7)	21%
Unknown	9%	10% (2)	6%

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Student Demographics: Gender			
Gender	Baseline Fall 04-07	Fall 08	College Average
Female	53%	50% (10)	69%
Male	45%	50% (10)	31%
Not Supplied	2%	0%	0%

Analysis
<p>1. What are you doing to increase access? I am doing the following to increase access: (1) communicating authentically with students, (2) incorporating critical thinking and writing, (3) emphasizing analysis of geographic data, and (4) developing capstone reports.</p>

<b>Student Retention Rate: Ethnicity</b> <i>Students who are retained with a grade other than W</i>		
Ethnicity	Baseline Fall 04-7	Fall 08
African American	71%	60% (5)
Asian	43%	33% (3)
Filipino	75%	0%
Hispanic/Latino	75%	100% (2)
Native American	N/A	N/A
Other	50%	100% (1)
White	76%	71% (7)
Unknown	82%	100% (2)
<b>Geol Average</b>	72%	70% (20)
College Average 72%		

<b>Student Retention Rate: Gender</b>		
Gender	Fall 04-07	Fall 08
Female	60% (10)	74%
Male	80% (10)	68%
Not Supplied	0%	100%

<b>Analysis</b>
<p><b>1.</b> If your disciplines retention rate is beneath the colleges rate, then why? The Geology Program's baseline average is the same as the colleges' average. Slight fluctuations in retention can be traced back my emotional health or student withdrawal because of personal reasons.</p>
<p><b>2.</b> If your retention rate is below the college rate, then what are you doing to increase retention? The Geology Program's baseline average is the same as the college's average.</p>
<p><b>3.</b> If your retention rate is above the college's rate do you have any best practices to share?</p>

Student Course Completion Rate (SCCR): Ethnicity <i>Students who complete the course with a grade A,B,C or credit</i>		
Ethnicity	Baseline Fall 04-07	Fall 08
African American	60% (5)	58%
Asian	0% (3)	43%
Filipino	0%	75%
Hispanic/Latino	50% (2)	58%
Native American	0%	0%
Other	0% (1)	50%
White	57% (7)	71%
Unknown	100% (2)	73%
<b>Geol Average</b>	50% (20)	63%
College SCCR Average: 60%		

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Student Successful Course Completion Rate (SCCR): Gender		
Gender	Fall 04-07	Fall 08
Female	60% (10)	68%
Male	40% (10)	57%
Not Supplied	50% (20)	100%

Analysis
1. If your disciplines successful course completion rate (SCCR) is beneath the colleges rate, then why?
2. If your sccr is below the college rate, then what are you doing to increase it?
3. If your sccr is above the college's rate do you have any best practices to share? <b>I used my Digital Bridge Academy Training to boost student SCCR.</b>

Student Program/Discipline GPA :Ethnicity		
Ethnicity	Baseline Fall 04-07	Fall 08
Asian	3.80	
African American	2.54	
Filipino	2.50	
Hispanic/Latino	2.61	
Native American	4.00	
Other	3.67	
White	3.42	
Unknown	3.50	
<b>Overall GPA</b>	<b>3.60</b>	

Student GPA: Gender		
Gender	Fall 04-07	Fall 08
Male	3.02	
Female	2.94	
Not Supplied	2.33	
<b>Overall GPA</b>	<b>3.60</b>	