

2009-2010 Instructional Program Review and Planning Supplemental Form

Please complete this form for each priority you identified in the 2008-2009 progress report (review these at <http://www.palomar.edu/irp/IPRPSupplementalReport.htm>). Please list at the end of this form the faculty and staff who participate in this report. Forward (1) a hard copy to Instructional Services and (2) email a Microsoft Word copy to idecker@palomar.edu no later than 3/05/2010.

Department Life Sciences	Department Priority # 2	<input type="checkbox"/> No funding/resources are being requested
Program/Discipline: Zoology - Human Physiology - Laboratory		Program/Discipline Priority # FOR 2010-2011: 1

To establish a priority, use the current Program Review and Planning (PRP) document submitted Spring 2009 (posted at <http://www.palomar.edu/irp/IPRPSupplementalReport.htm>) for this program or discipline. Identify from Box #2 in the PRP a priority for the upcoming academic year or develop a priority based on the data analysis discussed in Box #2.

<p>*2. Data Analysis (restate or summarize the data analysis from the PRP): From 2007 Plan and 2008-09 Update. The Mac computers used in the physiology lab are antiquated, and need to be replaced soon. They could be replaced with used systems from other instructional areas on campus that have more critical computer requirements. Both the CPUs and the monitors need updating for our ten systems.</p>					
<p>*3.a/b. Describe your goal (priority) based on data analysis from the PRP: From 2007 Plan and 2008-09 Update. Computer gear will need maintenance and repair as will the PowerLab equipment from AD Instruments. There needs to be funds in the budget process for repair and/or replacement of items that fail. We should plan on a useful life for our equipment and have money set aside for replacement once that time comes.</p>					
<p>Resources requested: Identify all the resources you are requesting to support the implementation of this priority. These resources would be additional funding needed beyond what is already provided to the discipline through the base resource allocation process.</p>	<p>Describe the resource(s) requested</p>	<p>Cite page(s) that provide rationale for this priority request</p>	<p>Estimated Amount of Funding Requested</p>	<p>New, one-time funding</p>	<p>New, on-going funding</p>
<p>*4.a. Equipment – Per unit cost is ≥\$500 (microscopes, table saw, etc.)</p>	<p>On going planned replacement of PowerLab physiology equipment due to age - 5 year cycle for 10 systems - all 10 systems at once</p>		<p>75,000 total over 5 year cycle</p>		<p>75,000/5 yrs..</p>
<p>*4.a. Technology (computers, data projectors, document readers, etc.)</p>	<p>On going planned replacement of Macintosh computer systems due to age - 5 year cycle for 10 systems - all 10 systems at once</p>		<p>25,000 total over 5 year cycle</p>		<p>25,000/5 yrs.</p>
<p>*4.b. Budget for 4000s - Per unit cost is ≤\$500 (supplies)</p>					
<p>*4.b. Budget for 5000s – Printing, maintenance agreements, software license, accreditation fees, etc.</p>					
<p>*4.c. Facilities</p>					
<p>*4.d. Faculty position</p>					
<p>*4.e. Classified staff position (contract)</p>					

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*4.e. Classified staff position (hourly)					
			TOTAL		
			100,000.00		

*Numbering parallels sections in original Program Review and Planning document
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How will you evaluate whether or not you have met your goal/priority with the requested resources?
SLO #2: Students will demonstrate the ability to design and execute experiments and critically analyze the data obtained. SLO #2: Student achievement of this SLO will be determined by supervised execution of a student-designed research project and the submission of a formal research report. This report will be graded by the instructor in multiple areas, but those areas will include the quality of the experimental design and the ability of the students to assess the data and draw supportable conclusions.; SLO #3: Students will be able to communicate scientific information, including methodology, results, and conclusions clearly and appropriately. SLO #3: Student achievement of this SLO will be assessed by the submission of lab reports on lab exercises. These reports will be graded on the basis of the student's communication of the goals, procedure, results of the lab, and interpretation & conclusion. Lab reports will also be assessed for the effectiveness and clarity of the presentation. In particular, focus will be paid to the student's ability to select and produce graphs to support the data collection and interpretation from the class experiment. The cost-effectiveness of these systems is high; for a fraction of the cost of a fully-equipped research lab, students can have access to high-quality research tools, enabling them to engage in investigations at an appropriate level of rigor. However, some of the equipment requires periodic replacement. While we have done our best to minimize these costs (self-repair of broken components, maximizing efficiency in use of resources, redesigning experiments), we have reached the point at which significant time is being wasted due to lack of replacement equipment for normal failure of devices. In addition, while the ten computer systems to which the PowerLab systems are connected are still functional, they are antiquated. Each is a relatively large, older Macintosh CPU. While the course instructors are reasonably expert in the use and maintenance of Macintosh systems, and have been able to keep these running for some time, the need for modernization is growing. Replacing the systems with smaller, more modern, more energy-efficient systems (possibilities would include laptops or Mac Minis, or even used systems from other campus departments) would not only enhance the lab experience for the students, but would also reduce time and effort required from the instructors for persuading old and increasingly eccentric computers to cooperate.

What evidence will you provide to reflect the impact these resources had on student learning?

<p>*5. Strategic Plan goal or objective addressed by this priority: http://www.palomar.edu/strategicplanning/Strategic%20Plan%202009/Strategic%20Plan%202009_book%20as%20printed.pdf</p>	<p>Course(s) & SLO(s) addressed by this priority: http://www.curricunet.com/Palomar/</p> <p>SLO #2: Students will demonstrate the ability to design and execute experiments and critically analyze the data obtained. SLO #3: Students will be able to communicate scientific information, including methodology, results, and conclusions clearly and appropriately. Student achievement of this SLO will be assessed by the submission of lab reports on lab exercises. These reports will</p>	<p>Program(s) and SLO(s) addressed by this priority (program is defined as a certificate, degree, or discipline): http://www.curricunet.com/Palomar/</p>
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	<p>be graded on the basis of the student's communication of the goals, procedure, results of the lab, and interpretation & conclusion. Lab reports will also be assessed for the effectiveness and clarity of the presentation. In particular, focus will be paid to the student's ability to select and produce graphs to support the data collection and interpretation from the class experiment.</p>	
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<p>6. Reflect on the progress your discipline and/or department is making on defining, implementing, and assessing course, program, GE/Institutional level SLOs. What have been the benefits and what have been the challenges?</p>
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Individuals completing this Program Review and Planning Supplemental document:

Name(s):	Signatures:	Date:
Richard Albistegui-DuBois		
Ralph E. Ferges, Department Chair		