**Palomar College – Program Review and Planning**

**Instructional Programs**

**YEAR 1**

**Academic Year** **2012-13**

**Purpose of Program 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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| **Discipline: Geology** | **09/11/2012** |
| **Instructional Discipline Reviewed (Each discipline is required to complete a Program Review)** | **Please Add Date (00/00/2012)** |

**STEP I. ANALYSIS**

|  |  |  |  |  |  |  |  |
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|  |  |  |  |  | **<<Prelim>>** | ◄▬ Preliminary Fall 2011 data are as of 1/31/2012 |  |
|  |  | **Fall 2008** | **Fall 2009** | **Fall 2010** | **Fall 2011** | **Definitions** | |
| **Enrollment at Census** | | 173 | 188 | 219 | 274 | *Self Explanatory* | |
| **Census Enrollment Load %** | | 91.05% | 98.95% | 99.55% | 105.38% | Enrollment at Census Divided By Sum of Caps (aka "Seats") | |
| **WSCH** | | 543 | 588 | 657 | 856 | Weekly Student Contact Hours | |
| **FTES** | | 18.09 | 19.59 | 21.89 | 28.53 | One Full-Time Equivalent Student = 30 WSCH | |
| **Total FTEF** | | 1.00 | 1.00 | 1.07 | 1.40 | Total Full-Time Equivalent Faculty | |
| **WSCH/FTEF** | | 543 | 588 | 616 | 611 | WSCH Generated per Full-Time Equivalent Faculty Member | |
| **Full-time FTEF** | | 0.40 | 0.60 | 0.60 | 0.40 | FTEF from Contract Faculty | |
| **Hourly FTEF** | | - | 0.20 | 0.27 | 1.00 | FTEF from Hourly Faculty | |
| **Overload FTEF** | | 0.60 | 0.20 | 0.20 | - | FTEF from Contract Faculty Overload | |
| **Part-Time FTEF** | | 0.60 | 0.40 | 0.47 | 1.00 | Hourly FTEF + Overload FTEF | |
| **Part-Time/(Total FTEF) %** | | 60.00% | 40.00% | 43.75% | 71.43% | Percent of Total FTEF Taught By Part-Time Faculty | |
| Student Achievement: **Non Distance Education Courses** | | | |  |  | Those NOT taught via Distance Ed (see below) methods of instruction | |
| **● Retention Rate** | | 92.86% | 95.08% | 95.22% | 94.70% | Non-W Eligible Grades (see next line) Divided by All Eligible Grades | |
| **● Success Rate** | | 57.14% | 63.93% | 74.16% | 72.73% | A,B,C,CR/P Grades Divided By A,B,C,CR/P,D,F,FW,NC/NP,W Grades | |
| Student Achievement: **Distance Education Courses** | | | |  |  | Those taught via Internet, TV or non line-of-sight interactive methods | |
| **● Retention Rate** | | - | - | - | - | Non-W Eligible Grades (see next line) Divided by All Eligible Grades | |
| **● Success Rate** | | - | - | - | - | A,B,C,CR/P Grades Divided By A,B,C,CR/P,D,F,FW,NC/NP,W Grades | |
| **Degrees Awarded** | | 1 | - | - | N/A\* | Degree Counts Are for the Full Academic Year (thus, \*N/A for 2011-12) | |
| **Certificates Awarded:** | | - | - | - | N/A\* | Certificate Counts Are for the Full Academic Year (\*N/A for 2011-12) | |
| **- Under 18 Units** | | - | - | - | N/A\* | Certificate Counts Are for the Full Academic Year (\*N/A for 2011-12) | |
| **- 18 or More Units** | | - | - | - | N/A\* | Certificate Counts Are for the Full Academic Year (\*N/A for 2011-12) | |

| **I. A. Reflect upon and provide an analysis of the four years of data above (for a sample analysis see** <http://www.palomar.edu/irp/11PRYear1/sampleforIA.pdf>) |
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| **Enrollment in the Geology program has been steadily increasing for the past four years to a point that we are virtually at 100% capacity. As a result our WSCH and FTES have also dramatically increased. Total FTEF has also dramatically increased to 1.40 from an average of 1.0 the past 3 years. We have a very high (95%) retention rate and a 73% success rate. We run a rigorous program and a retention rate of 73% attests to the fine quality of all of our instructors, both full-time and part-time.**  **The retirement of Dr. Steve Spear, the only full-time geologist, in May 2011 has severely impacted our program. Part-Time FTEF has increased from 0.47 to 1.00; Part-Time to total FTEF has increased from 43.75% in Fall 2010 to 71.43% in Fall 2011. Spring, 2012 was 100% hourly; the current Fall 2012 is 85% hourly. It will be difficult to maintain a cohesive program under these circumstances. The geology program offers an AA degree and the new AS-T degree; it is also one of the STEM disciplines with a high demand for graduates.**  **For the 2011-2012 academic year, geology placed #1 on the list for hiring. No hring occurred. Re-application has placed geology as #8 on the list for hiring for the 2012-2013 academic year.** |

| **I. B. Please summarize the findings of Course AND Program SLO assessments conducted by your discipline. (For examples, see** <http://www.palomar.edu/irp/11PRYear1/PRPsloExamples.pdf>) |
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| **I.B.1 Summarize Course SLO assessment results beginning on the next line.**  **Course SLO's were completed in GEOL100 and GEOL100 Lab in the Spring of 2010. In both cases, students met the SLO objectives of identifying plutons and mineral specimens. Course SLO's were completed for GEOL 110 in Spring of 2011; again, students met the SLO objective for identifying geomorphic processes in national parks. A different SLO for GEOL100 and GEOL100 lab will be evaluated for Fall 2012 .**  **I.B.2 Summarize Program SLO assessment results beginning on the next line.** |

| **I. C. Reflect upon the SLO assessment findings in Box B above. Discuss overall observations and any areas of concern or noteworthy trends.**  **(For examples of such analysis, see** <http://www.palomar.edu/irp/11PRYear1/PRPsloExamples.pdf>) |
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| **I.C.1 Please reflect upon the Course SLO findings in Box B (above) beginning on the next line.**  **Students have generally greatly ecxeeded the score set as the objective for meeting the SLO.**  **I.C.2 And, please reflect upon the Program SLO findings in Box B beginning on the next line.** |

| **I. D. For Career Technical disciplines only, please provide a brief summary of the labor market outlook. This data can be found at** [**http://www.labormarketinfo.edd.ca.gov/**](http://www.labormarketinfo.edd.ca.gov/) **Please include job projections and trends that may influence major curriculum revisions.** |
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| **N/A** |

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| **STEP II. PLANNING**  **Reflecting on the 4-year trend data, the SLO assessment results, and the college’s** [**Strategic Plan 2013**](http://www.palomar.edu/strategicplanning/STRATEGICPLAN2013.pdf)**, describe/discuss the discipline planning related to the following: (For sample reflections, see** <http://www.palomar.edu/irp/11PRYear1/samplesforII.pdf>) |

| **II. A. Curriculum, programs, certificates and degrees (consider changes due to Title 5 or other regulations, CSU/UC transfer language updates, articulation updates, student retention or success rates, workforce and labor market projections, certificate or degree completions, etc.)** |
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| **The AS-T Geology degree under the Model Transfer Program has been submitted in the curriculum process and should become effective as of the Fall 2013 semester. The current AA Geology degree is being amended. The vast majority of students enrolled in Geology courses do so to satisfy their GE science requirement. We currently award only one or two AA degrees per year. Nonetheless, about a half dozen students continue on in Geology each year at universities without obtaining an AA degree. The new California State guidelines will most likely prompt students to officially file for their AA or AS-T degree. All sources indicate that there is strong demand for graduates with geoscience-related BS and MS degrees in this highly-compensated field.** |

| **II. B. Class scheduling (consider enrollment trends, growth, course rotation, sequencing, Center/Site offerings, comprehensiveness, etc.)** |
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| **The Census Load % of 105.38 indicates that the number of class sections offered in geology could be increased. Due to materials and equipment, we can only offer most geology courses on the main campus. The high percentage 105% load in Fall 2011 occurred in a semester in which we added one section of GEOL 100L and one section of GEOL 110 (a class historically offered only once every two years). At present, we offer GEOL 100 and GEOL 100L every semester, GEOL 110 each Fall, and rotate the rest of the courses every two years. However, increased interest in the program may require that other courses be offered more frequently. The GEOL 195 field course is being offered once per year.** |

| **II. C. Faculty (Briefly discuss the faculty hiring needs for this discipline. This discussion does not replace the requirement to submit a Rationale Form for Faculty Hiring to IPC.)** |
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| **Steve Spear, our only full-time geology professor retired in May 2011. WE NEED TO REPLACE HIM! Jim Pesavento, geologist/astronomer teaches 2 sections of GEOL 100 as part of his load. Patty Deen teaches the GEOL 110 and 195 field course, but most courses are being taught by part-time instructors. The lack of a full-time Geology faculty member is especially difficult, as most qualified instructors have jobs as geologists and can only teach in the evenings.**  **Essential program administration is being handled by Patty Deen, a designated oceanography faculty member. However, the program is in desperate need of a dedicated full-time geologist. Assessment of SLO's and curriculum development are not receiving the attention they need. There is no dedicated faculty advisor in the discipline, we have no one to act as campus representative for the Geological Society of America, we have no one to serve as discipline liaison to CSU and UC campuses. Without a full-time Geology faculty member, there is no effective planning or cohesion in the discipline.** |

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| **STEP III. RESOURCE REQUESTS FOR DISCIPLINE:** |
| **III. A. Describe the resources necessary to successfully implement the planning described above. Provide a detailed rationale for each request by referring to the analyses of data and SLO assessment results in Step I and/or to any other evidence not apparent in the data or SLO Assessment** results.  NOTE: Do **NOT** include Resource Requests that duplicate requests from other disciplines In your department. Place requests common to two or more disciplines on the form: ACADEMIC DEPARTMENT RESOURCE REQUESTS. |

| **a. Equipment (per unit cost is >$500) *Enter requests on lines below.*** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Resource** | **Describe Resource Requested** | **Prioritize these requests**  **1,2,3, etc.** | **Strategic Plan 2013 Goal/**  **Objective Addressed by This Resource**  **(**[**Link**](http://www.palomar.edu/strategicplanning/STRATEGICPLAN2013.pdf)**)** | **Provide a detailed rationale for the requested resource. The rationale should refer to your discipline’s plan, analysis of data, SLO assessments, and/or the College’s Strategic Plan** | **Estimated Amount of Funding Requested** | **Will this be one-time or on-going funding?** | **Is resource already funded (in part or in full)? If so, name source. Why is that source not sufficient for future funding?** |
| **a1.** | **We have no discipline-specific equipment needs at this time.** |  |  |  |  |  |  |
| **a2.** |  |  |  |  |  |  |  |
| **a3.** |  |  |  |  |  |  |  |
| **a4.** |  |  |  |  |  |  |  |
| **a5.** |  |  |  |  |  |  |  |

| **b. Technology (computers, data projectors, document readers, etc.) *Enter requests on lines below.*** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Resource** | **Describe Resource Requested** | **Prioritize these requests**  **1,2,3, etc.** | **Strategic Plan 2013 Goal/**  **Objective Addressed by This Resource**  **(**[**Link**](http://www.palomar.edu/strategicplanning/STRATEGICPLAN2013.pdf)**)** | **Provide a detailed rationale for the requested resource. The rationale should refer to your discipline’s plan, analysis of data, SLO assessments, and/or the College’s Strategic Plan** | **Estimated Amount of Funding Requested** | **Will this be one-time or on-going funding?** | **Is resource already funded (in part or in full)? If so, name source. Why is that source not sufficient for future funding?** |
| **b1.** | **See department needs** |  |  |  |  |  |  |
| **b2.** |  |  |  |  |  |  |  |
| **b3.** |  |  |  |  |  |  |  |
| **b4.** |  |  |  |  |  |  |  |
| **b5.** |  |  |  |  |  |  |  |

| **c. Budget for 4000s (per unit cost is <$500 supplies) *Enter requests on lines below.*** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Resource** | **Describe Resource Requested** | | **Prioritize these requests**  **1,2,3, etc.** | | **Strategic Plan 2013 Goal/**  **Objective Addressed by This Resource**  **(**[**Link**](http://www.palomar.edu/strategicplanning/STRATEGICPLAN2013.pdf)**)** | | **Provide a detailed rationale for the requested resource. The rationale should refer to your discipline’s plan, analysis of data, SLO assessments, and/or the College’s Strategic Plan** | | **Estimated Amount of Funding Requested** | | **Will this be one-time or on-going funding?** | | **Is resource already funded (in part or in full)? If so, name source. Why is that source not sufficient for future funding?** |
| **c1.** | **Current Funding level is $3,200.** |  | |  | |  | |  | |  | | **Current funding level is adequate.** | |
| **c2.** |  |  | |  | |  | |  | |  | |  | |
| **c3.** |  |  | |  | |  | |  | |  | |  | |
| **c4** |  |  | |  | |  | |  | |  | |  | |
| **c5.** |  |  | |  | |  | |  | |  | |  | |

| **d. Budget for 5000s (printing, maintenance agreements, software license etc.) *Enter requests on lines below.*** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Resource** | **Describe Resource Requested** | | **Prioritize these requests**  **1,2,3, etc.** | | **Strategic Plan 2013 Goal/**  **Objective Addressed by This Resource**  **(**[**Link**](http://www.palomar.edu/strategicplanning/STRATEGICPLAN2013.pdf)**)** | | **Provide a detailed rationale for the requested resource. The rationale should refer to your discipline’s plan, analysis of data, SLO assessments, and/or the College’s Strategic Plan** | | **Estimated Amount of Funding Requested** | | **Will this be one-time or on-going funding?** | | **Is resource already funded (in part or in full)? If so, name source. Why is that source not sufficient for future funding?** | |
| **d1.** | **Current budget is $946.** |  | |  | |  | |  | |  | | **Current funding level is adequate.** | |
| **d2.** |  |  | |  | |  | |  | |  | |  | |
| **d3.** |  |  | |  | |  | |  | |  | |  | |
| **d4.** |  |  | |  | |  | |  | |  | |  | |
| **d5.** |  |  | |  | |  | |  | |  | |  | |

| **e. Classified staff position (permanent/contract position requests unique to this discipline) *Enter requests on lines below.*** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Resource** | **Describe Resource Requested** | | **Prioritize these requests**  **1,2,3, etc.** | | **Strategic Plan 2013 Goal/**  **Objective Addressed by This Resource**  **(**[**Link**](http://www.palomar.edu/strategicplanning/STRATEGICPLAN2013.pdf)**)** | | **Provide a detailed rationale for the requested resource. The rationale should refer to your discipline’s plan, analysis of data, SLO assessments, and/or the College’s Strategic Plan** | | **Estimated Amount of Funding Requested** | | **Will this be one-time or on-going funding?** | | **Is resource already funded (in part or in full)? If so, name source. Why is that source not sufficient for future funding?** |
| **e1.** | **N/A** |  | |  | |  | |  | |  | |  | |
| **e2.** |  |  | |  | |  | |  | |  | |  | |
| **e3.** |  |  | |  | |  | |  | |  | |  | |
| **e4.** |  |  | |  | |  | |  | |  | |  | |
| **e5.** |  |  | |  | |  | |  | |  | |  | |

| **f. Classified staff position (temporary and student workers position requests unique to this discipline) *Enter requests on lines below.*** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Resource** | **Describe Resource Requested** | | **Prioritize these requests**  **1,2,3, etc.** | | **Strategic Plan 2013 Goal/**  **Objective Addressed by This Resource**  **(**[**Link**](http://www.palomar.edu/strategicplanning/STRATEGICPLAN2013.pdf)**)** | | **Provide a detailed rationale for the requested resource. The rationale should refer to your discipline’s plan, analysis of data, SLO assessments, and/or the College’s Strategic Plan** | | **Estimated Amount of Funding Requested** | | **Will this be one-time or on-going funding?** | | **Is resource already funded (in part or in full)? If so, name source. Why is that source not sufficient for future funding?** |
| **f1.** | **N/A** |  | |  | |  | |  | |  | |  | |
| **f2.** |  |  | |  | |  | |  | |  | |  | |
| **f3.** |  |  | |  | |  | |  | |  | |  | |
| **f4.** |  |  | |  | |  | |  | |  | |  | |
| **f5.** |  |  | |  | |  | |  | |  | |  | |

| **III. B. Are there other resources (including data) that you need to complete your discipline review and planning?** |
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| **No** |

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| **STEP IV. SHARE YOUR ACCOMPLISHMENTS (AKA Brag, Toot your horn) Please include at least one discipline accomplishment that you’d like to share with the college community.** |
| **Field trips to Death Valley Natinal Park and the Mojave desert were organized by adjunct faculty member Lisa Kayvon; the trips were well-attended by students and created great enthusiasm.**  **Patty Deen had a very successful 4-day field course to Anza-Borrego and Joshua Tree in March, 2012.**  **Thanks in large part to field courses and trips, we have a group of interested students and majors. Thanks to their dedication, the Geoscience Connection club is being re-chartered in Fall 2012. they will participate in Earth Science Week.**  **Patty Deen worked with Palomar College TV to produce a 20-minute documentary on the geology of Yosemite National Park; it is posted on their website: http://www.palomar.edu/pctv/yosemite\_documentary.shtml** |

| **STEP V. ACCREDITATION For programs with an external accreditation, indicate the date of the last accreditation visit and discuss recommendations and progress made on the recommendations.** |
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| **WASC ignored our department in their last tour and Geology has no formal accrediting agency.** |

| **STEP VI. COMMENTS Other comments, recommendations: (Please use this space for additional comments or recommendations that don’t fit in any category above.)** |
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| **1. We need to replace Steve Spear.**  **2. When we replace Steve Spear, the new faculty member will begin to integrate technology, including GIS and other discipline-specific computer applications into the program. This new faculty member will require support to reshape the curriculum and activities to better prepare students for transfer and future careers in the geosciences.**  **3. Plans for the new Rock Saw Room have not become reality; we need a functioning rock saw.** |

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| **Please identify faculty and staff who participated in the development of the plan for this department:** | | |
| **Patty Deen *Name*** | ***Name*** | ***Name*** |

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Name*** | ***Name*** |

**Department Chair/Designee Signature Date**

**Division Dean Signature Date**

* **Provide a hard copy to the Division Dean no later than September 14, 2012**
* **Provide a hard copy with the Dean’s sign-off to Instructional Services by September 28, 2012**
* **Email an electronic copy to** [**jdecker@palomar.edu**](mailto:jdecker@palomar.edu) **by September 28, 2012**