**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: Information Technology** | **09/13/2012** |
| **Instructional Discipline Reviewed (Each discipline is required to complete a Program Review)** | **Please Add Date (00/00/2012)** |

**STEP I. ANALYSIS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|   |   |  |  |  | **<<Prelim>>** | ◄▬ Preliminary Fall 2011 data are as of 1/31/2012 |   |
|   |   | **Fall 2008** | **Fall 2009** | **Fall 2010** | **Fall 2011** | **Definitions** |
| **Enrollment at Census** | 1,050 | 1,212 | 1,289 | 644 | *Self Explanatory* |
| **Census Enrollment Load %** | 81.27% | 85.84% | 86.86% | 85.64% | Enrollment at Census Divided By Sum of Caps (aka "Seats") |
| **WSCH** | 2,520 | 2,981 | 2,924 | 1,605 | Weekly Student Contact Hours |
| **FTES** | 83.98 | 99.37 | 97.47 | 53.51 | One Full-Time Equivalent Student = 30 WSCH |
| **Total FTEF** | 6.13 | 7.33 | 7.20 | 3.93 | Total Full-Time Equivalent Faculty |
| **WSCH/FTEF** | 411 | 407 | 406 | 408 | WSCH Generated per Full-Time Equivalent Faculty Member |
| **Full-time FTEF** | 1.00 | 1.93 | 2.00 | 1.13 | FTEF from Contract Faculty |
| **Hourly FTEF** | 3.63 | 3.73 | 3.93 | 2.33 | FTEF from Hourly Faculty |
| **Overload FTEF** | 1.50 | 1.67 | 1.27 | 0.47 | FTEF from Contract Faculty Overload |
| **Part-Time FTEF** | 5.13 | 5.40 | 5.20 | 2.80 | Hourly FTEF + Overload FTEF |
| **Part-Time/(Total FTEF) %** | 83.70% | 73.64% | 72.22% | 71.19% | 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** | 91.18% | 92.02% | 96.13% | 96.49% | Non-W Eligible Grades (see next line) Divided by All Eligible Grades |
|  **● Success Rate** | 70.59% | 61.96% | 67.10% | 62.57% | 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** | 85.61% | 86.21% | 87.00% | 87.25% | Non-W Eligible Grades (see next line) Divided by All Eligible Grades |
|  **● Success Rate** | 64.88% | 65.19% | 63.25% | 63.73% | A,B,C,CR/P Grades Divided By A,B,C,CR/P,D,F,FW,NC/NP,W Grades |
| **Degrees Awarded** |  - | 2 | 2 | N/A\* | Degree Counts Are for the Full Academic Year (thus, \*N/A for 2011-12) |
| **Certificates Awarded:** | 1 | 5 | 6 | N/A\* | Certificate Counts Are for the Full Academic Year (\*N/A for 2011-12) |
| **- Under 18 Units** | 1 | 2 | 4 | N/A\* | Certificate Counts Are for the Full Academic Year (\*N/A for 2011-12) |
| **- 18 or More Units** |  - | 3 | 2 | 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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| **Statistics for the four years of 2008 through 2011 reflect that the Information Technology component of the Department of Computer Science and Information Systems is maintaining a solid presence at Palomar College. Even through times of incredible budget constriction the Information Technology discipline has managed to stay very consistent both in retention and success rates. Both distance education courses and non-distance education courses reflect this uniform strength in the program. The statistics also, however, reflect that our discipline is struggling with the severe cutbacks in the number of sections of courses we can offer. This situation is causing serious problems for students completing their course of study.**  |

| **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.****The Computer Science and Information Systems department lead the way at Palomar in instituting Student Learning Outcomes. We have had in place a process for assessing SLOs in all classes for two years. Our SLO results reflect that the Information Technology discipline continues to meet the needs of student learning. Over the last 4 semesters SLO assessments in CSIT 105 have resulted in over 80% of students have reported that they either strongly agreed or agreed that the course enabled them to report being able to identify and define at least five concepts associated with computer literacy. Only 1.63% of these students reported being unable to achieve this level of proficiency.** **I.B.2 Summarize Program SLO assessment results beginning on the next line.****The Information Technology discipline is just starting to identify and define program SLOs. It is anticipated this process will be completed during this academic year with measurement to start in the 2013-2014 academic year.** |

| **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.****Based on the findings of the SLO assessments it has been determined that no major changes need to be made to the methods and techniques of the discipline at this time. Of course, the discipline will continue to monitor SLO outcomes for any indication that changes in topic or technique should be instituted.** **I.C.2 And, please reflect upon the Program SLO findings in Box B beginning on the next line.** **Program SLO findings will be assessed upon their implementation. Due to dramatic changes in the discipline of Information Technology, it is anticipated that program changes will be needed to insure students continue to graduate with the skills needed to contribute to the industry.** |

| **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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| **As has been true for several years, computer programming and software engineering remain very high on the list of careers that are in increasing demand both here in California and the nation as a whole. The State of California reports that Software Developers are in the top 15 fastest growing occupations with a 32% increase between 2010 and 2020. Software developers rank third in median annual wages within California. The forecast for future demand is increasing need with a decreasing availability of educated people to fill these positions.**  |

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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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| **In an effort to keep the Information Technology's program correctly aligned with the needs of employers, the degrees and certificates offered are currently undergoing revisions. Rather than offer a wide range of certificates the curriculum has been streamlined to focus on just three areas within the Associate of Science Degree. The three areas of emphasis are: Desktop Programming, Web Development and Web Administration. With these new degree programs students will be able to target their education to the particular field they are most interested in pursuing. A continuing example of the changes we have made in the program to address changing conditions in the workforce is the C# programming language. This new language has become a very widely used technology in both desktop programming and for Web application development. We are now offering two C# courses that are being extremely successful.**  |

| **II. B. Class scheduling (consider enrollment trends, growth, course rotation, sequencing, Center/Site offerings, comprehensiveness, etc.)** |
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| **Budget realities have forced severe reductions in the number of sections of our classes we can offer and restricted our discipline from adding courses that are requested and needed by our students. One such example is an advanced Access class. This technology is growing in industry and is being requested by our students. Due to the limits imposed by our budget constraints we are not able to offer the course. Students report that they are having exteme difficulty in putting together an educational plan that will enable them to complete their courses of study, not just within a reasonable timeframe but completing their degrees at all.**  |

| **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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| **Due to the restrictions in the number of classes that we can offer, there is currently a limited need for additional faculty. We continue to make use of adjunct faculty to fill substantial needs for instruction and will monitor the use of those faculty to insure it doesn't get out of balance with full-time faculty levels.** |

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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.**  | **See Departmental Program Review Document** |  |  |  |  |  |  |
| **a2.**  |  |  |  |  |  |  |  |
| **a3.**  |  |  |  |  |  |  |  |
| **a4.**  |  |  |  |  |  |  |  |
| **a5.**  |  |  |  |  |  |  |  |

| **b. Technology (computers, data projectors, document readers, etc.) *Enter requests on lines below.*** |
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| **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 Departmental Program Review Document** |  |  |  |  |  |  |
| **b2.**  |  |  |  |  |  |  |  |
| **b3.**  |  |  |  |  |  |  |  |
| **b4.**  |  |  |  |  |  |  |  |
| **b5.**  |  |  |  |  |  |  |  |

| **c. Budget for 4000s (per unit cost is <$500 supplies) *Enter requests on lines below.*** |
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| **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.**  | **See Departmental Program Review Document** |  |  |  |  |  |  |
| **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.**  | **See Departmental Program Review Document** |  |  |  |  |  |  |
| **d2.**  |  |  |  |  |  |  |  |
| **d3.**  |  |  |  |  |  |  |  |
| **d4.**  |  |  |  |  |  |  |  |
| **d5.**  |  |  |  |  |  |  |  |

|  **e. Classified staff position (permanent/contract position requests unique to this discipline) *Enter requests on lines below.*** |
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| **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.**  | **See Departmental Program Review Document** |  |  |  |  |  |  |
| **e2.**  |  |  |  |  |  |  |  |
| **e3.**  |  |  |  |  |  |  |  |
| **e4.**  |  |  |  |  |  |  |  |
| **e5.**  |  |  |  |  |  |  |  |

| **f. Classified staff position (temporary and student workers position requests unique to this discipline) *Enter requests on lines below.*** |
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| **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.**  |  |  |  |  |  |  |  |
| **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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| **Not Applicable** |

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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.** |
| **The Information Technology discipline with the department of Computer Science and Information Systems continues to maintain close working relationships with other San Diego County institutions of higher education through the San Diego County Computer Curriculum Coordinating Committee. This group of Information Technology educators meet twice a year to discuss current developments in the industry and within local curriculums. The department is also proud of the new revisions within the curriculum to more closely align the discipline with the needs of local employers and students.** |

| **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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| **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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| **Please identify faculty and staff who participated in the development of the plan for this department:** |
| **Ronald Burgher, Ph.D.*Name*** | ***Name*** | ***Name*** |

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| ***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** **by September 28, 2012**