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1. Program Description

A. Description

Ventura College's degree program provides opportunities for students who wish to continue their studies at a four-year institution in fields such as computer science, computer information sciences, information technology, or information systems management. Computer science education, moreover, seeks to prepare students for lifelong learning that will enable them to move beyond today's technology to meet the challenges of the future.

B. Program Student Learning Outcomes - Successful students in the program are able to:

Think logically and critically to solve problems, explain conclusions, and evaluate evidence or critique the thinking of self and others.

Identify, analyze, and document the requirement specifications for typical software projects and design techniques to create a solution to the problem.

Apply software development techniques that use the correct syntax and semantics of a programming language to write the source code to implement and test/debug a specified design.

Exhibit professional behavior and work habits and effectively communicate project design.

C. College Level Student learning Outcomes

- Critical Thinking and Problem Solving
- 2. Communication
- 3. Information Competency

D. Estimated Costs (Required for Certificate of Achievement ONLY)

| | Cost |
|-----------------|------|
| Enrollment Fees | |
| Books | |
| Supplies | |
| Total | |

E. Criteria Used for Admission

F. Vision

Ventura College will be a model community college known for enhancing the lives and economic futures of its students and the community.

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G. Mission

Ventura College, one of the oldest comprehensive community colleges in California, provides a positive and accessible learning environment that is responsive to the needs of a highly diverse student body through a varied selection of disciplines, learning approaches and teaching methods including traditional classroom instruction, distance education, experiential learning, and co-curricular activities. It offers courses in basic skills; programs for students seeking an associate degree, certificate or license for job placement and advancement; curricula for students planning to transfer; and training programs to meet worker and employee needs. It is a leader in providing instruction and support for students with disabilities. With its commitment to workforce development in support of the State and region's economic viability, Ventura College takes pride in creating transfer, career technical and continuing education opportunities that promote success, develop students to their full potential, create lifelong learners, enhance personal growth and life enrichment and foster positive values for successful living and membership in a multicultural society. The College is committed to continual assessment of learning outcomes in order to maintain high quality courses and programs. Originally landscaped to be an arboretum, the College has a beautiful, park-like campus that serves as a vital community resource.

H. Core Commitments

Ventura College is dedicated to following a set of enduring Core Commitments that shall guide it through changing times and give rise to its Vision, Mission and Goals.

- Student Success
- Respect
- Integrity
- Quality
- Collegiality
- Access
- Innovation
- Diversity
- Service
- Collaboration
- Sustainability
- Continuous Improvement

I. Degrees/Certificates

Program's courses are designed to articulate to UC and CSU for transfer students. A.S. Computer Science Certificate of Achievement

J. Program Strengths, Successes, and Significant Events

- CS courses are required by some universities for Science majors.
- In August of 2011 a full-time math faculty was restricted by the district from teaching CS courses. The reason given for this action was that there is no record that this faculty

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member was hired by the district to teach CS. This is despite the fact that this faculty member was recruited to spearhead a grant funded project beginning in 1999 to create the current CS program.

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K. Organizational Structure

President: Robin Calote

Executive Vice President: Ramiro Sanchez

Dean: David Oliver
Department Chair:

Instructors and Staff

| Name | Rabin Polito |
|----------------------------------|-----------------|
| Classification | Adjunct Faculty |
| Year Hired | |
| Years of Work-Related Experience | |
| Degrees/Credentials | |

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2. Performance Expectations

A. Program Student Learning Outcomes - Successful students in the program are able to:

1.

B. Student Success Outcomes

- 1. The program will increase its retention rate from the average of the **program's** prior three-year retention rate. The retention rate is the number of students who finish a term with any grade other than W or DR divided by the number of students at census.
- 2. The program will increase its retention rate from the average of the **college's** prior three-year retention rate. The retention rate is the number of students who finish a term with any grade other than W or DR divided by the number of students at census.
- 3. The program will increase the student success rates from the average of the **program's** prior three-year success rates. The student success rate is the percentage of students who receive a grade of c or better.
- 4. The program will increase the student success rates from the average of the **college's** prior three-year success rates. The student success rate is the percentage of students who receive a grade of C or better.
- 5. Students will complete the program earning certificates and/or degrees.

C. Program Operating Outcomes

- 1. The program will maintain WSCH/FTEF above the 525 goal set by the district.
- Inventory of instructional equipment is functional, current, and otherwise adequate to maintain
 a quality-learning environment. Inventory of all equipment over \$200 will be maintained and a
 replacement schedule will be developed. Service contracts for equipment over \$5,000 will be
 budgeted if funds are available.

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D. Courses to Student Learning Outcomes Map

Course to Program-Level Student Learning Outcome Mapping (CLSLO)

- **I:** This program-level student learning outcome is **INTRODUCED** is this course.
- **P:** This program-level student learning outcome is **PRACTICED** in this course.
- $\mathbf{M:}$ This program-level student learning outcome is $\mathbf{MASTERED}$ in this course.

Leave blank if program-level student learning outcome is not addressed.

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3. Operating Information

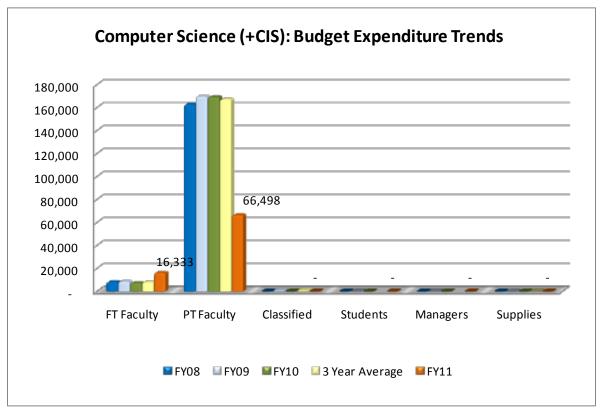
A1: Budget Summary Table

To simplify the reporting and analysis of the Banner budget detail report, the budget accounts were consolidated into nine expense categories. The personnel categories include employee payroll expenses (benefits). The "3 Year Average" was computed to provide a trend benchmark to compare the prior three year expenses to the FY11 expenses. The "FY11 College" expense percentages are included to provide a benchmark to compare the program's expenses to the overall college expenses.

| | | | | | 3 Year | | FY11 | FY11 |
|----------|------------|---------|---------|---------|---------|--------|---------|---------|
| Category | Title | FY08 | FY09 | FY10 | Average | FY11 | Program | College |
| 1 | FT Faculty | 8,309 | 8,732 | 7,372 | 8,138 | 16,333 | 101% | 12% |
| 2 | PT Faculty | 162,922 | 169,862 | 169,268 | 167,351 | 66,498 | -60% | -10% |
| 3 | Classified | - | 791 | - | 791 | - | -100% | -1% |
| 4 | Students | - | 32 | - | | - | | 10% |
| 6 | Managers | - | 77 | - | | - | | -8% |
| 7 | Supplies | 71 | - | - | 71 | - | -100% | 24% |
| | Total | 171,302 | 179,494 | 176,640 | 175,812 | 82,831 | -53% | 0% |

A2: Budget Summary Chart

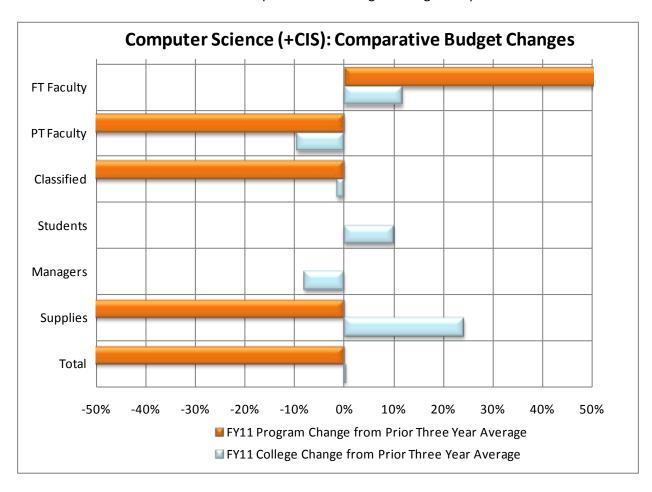
This chart illustrates the program's expense trends. The data label identifies the FY11 expenses (the last bar in each group). The second-to-last bar is the program's prior three year average.



A3: Comparative Budget Changes Chart

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This chart illustrates the percentage change from the prior three year average expense to the FY11 expenses. The top bar for each budget category represents the program's change in expenses and includes the data label. The second bar represents the college's change in expenses.



A4: Budget Detail Report

The program's detail budget information is available in *Appendix A – Program Review Budget Report*. This report is a PDF document and is searchable. The budget information was extracted from the District's Banner Financial System. The program budget includes all expenses associated to the program's Banner program codes within the following funds: general fund (111), designated college equipment fund (114-35012), State supplies and equipment funds (128xx), and the technology refresh fund (445). The *Program Review Budget Report* is sorted by program (in alphabetical order) and includes the following sections: total program expenses summary; subtotal program expenses for each different program code; detail expenses by fund, organization and account; and program inventory (as posted in Banner). To simplify the report, the Banner personnel benefit accounts (3xxx) were consolidated into employee type benefit accounts (3xxx1 = FT Faculty, 3xxx2 = PT Faculty, 3xxx3 = Classified, etc.).

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A5: Interpretation of the Program Budget Information

The statistics above show budget expenses for full-time faculty in CS, but there are no full-time CS faculty. In prior years a full-time math faculty taught one course in CS each spring, summer, and fall, and this class was sometimes counted toward load and sometimes counted as extrahourly. It is the semesters that were coincidentally recorded as load that caused the full-time faculty expense.

There is no explanation for the disparity in part-time expenses in FY08, FY09, and FY10 versus FY11. There have only been two faculty teaching the same load each year for several years. The only differences in expenses should be for step and column increases. This is further verified by Table C2 below which illustrates consistent census enrollment each of the past four years.

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B1: Program Inventory Table

This chart shows the inventory (assets) as currently posted in the Banner Financial System. This inventory list is not complete and will require review by each program. Based on this review an updated inventory list will be maintained by the college. A result of developing a complete and accurate inventory list is to provide an adequate budget for equipment maintenance and replacement (total-cost-of-ownership). The college will be working on this later this fall.

| Item | Vendor | Org | Fund | Purchased | Age | Price | Perm Inv # | Serial # |
|---------------------------------|-----------------|-------|------|-----------|-----|-------|------------|-----------|
| Optiplex GX520n Small Form Fac | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018102 | 48C12C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018097 | 53C12C1 |
| Computer Dell Optiplex GX520r | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018095 | 8C1Q1C1 |
| Computer, Dell Opti GX520N | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018096 | 38C12C1 |
| Computer Dell Optiplex GX520r | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018088 | FC1Q1C1 |
| Computer Dell Optiplex GX520n | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018094 | 7C1Q1C1 |
| Computer Dell Optiplex GX520n | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018087 | HC1Q1C1 |
| Computer Dell Optiplex GX520n | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018086 | JC1Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018085 | FZ0Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018084 | BZ0Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018083 | GY0Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018082 | JZ0Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018081 | 4Z0Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018077 | 7Z0Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018078 | 701Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018080 | 601Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018079 | BY0Q1C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018101 | B7C12C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018076 | 101Q1C1 |
| CPX444Ser Hitachi LCD Projector | Troxell Communi | 37310 | 129 | 5/24/2007 | 4 | 986 | N00018247 | F7C0147 |
| CPX444Ser Hitachi LCD Projector | Troxell Communi | 37310 | 129 | 5/24/2007 | 4 | 986 | N00018246 | F7C014772 |
| CPX444Ser Hitachi LCD Projector | Troxell Communi | 37310 | 129 | 5/24/2007 | 4 | 986 | N00018248 | F7C014782 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018100 | 87C12C1 |
| Printer, Dell LaserJet 5310N | Dell Computer C | 37310 | 129 | 2/5/2007 | 4 | 1,180 | N00018063 | 3QWS4B1 |
| Dell Printer LaserJet 5310N | Dell Computer C | 37310 | 129 | 2/5/2007 | 4 | 1,180 | N00018062 | CWWS4B1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018104 | G7C12C1 |
| Optiplex GX520n Small Form Fac | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018103 | D7C12C1 |
| Optiplex GX520n Small Form Fa | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018098 | C7C12C1 |
| Optiplex GX520n Small Form Fac | Dell Computer C | 37310 | 129 | 1/22/2007 | 4 | 1,097 | N00018099 | 68C12C1 |
| List continues with 155 items | | | | | | | | |

B2: Interpretation of the Program Inventory Information

The inventory must be updated. At one point there was a booming CS offering and a lab specifically designated for CS classes; however the program has been dramatically reduced, the lab was converted to a math classroom, and the above listed equipment was absorbed by other programs on campus.

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C1: Productivity Terminology Table

| Sections Does not include not-for-credit classes (community education). Census Number of students enrolled at census (typically the 4 th week of class for fall and spring FTES Full Time Equivalent Students A student in the classroom 15 hours/week for 35 weeks (or two semesters) = 525 student contact hours. 525 student contact hours = 1 FTES. Example: 400 student contact hours = 400/525 = 0.762 FTES. The State apportionment process and District allocation model both use FTES as the primary funding criterion. FTEF Full Time Equivalent Faculty A faculty member teaching 15 units for two semesters (30 units for the year) = 1 FTE. Example: a 6 unit assignment = 6/30 = 0.20 FTEF (annual). The college also computes semester FTEF by changing the denominator to 15 units. However, in the program review data, all FTE is annual. FTEF includes both Full-Time Faculty and Part-Time Faculty. FTEF in this program review includes faculty assigned to teach extra large sections (XL Faculty). This deviates from the district practice of not including these assignments as |
|---|
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| , , , |
| Faculty). This deviates from the district practice of not including these assignments as |
| |
| part of FTEF. However, it is necessary to account for these assignments to properly |
| produce represent faculty productivity and associated costs. |
| Cross FTEF is assigned to all faculty teaching cross-listed sections. The FTEF assignment is |
| Listed proportional to the number of students enrolled at census. This deviates from the |
| FTEF practice of assigning load only to the primary section. It is necessary to account for the |
| cross-listed assignments to properly represent faculty productivity and associated cos XL FTE Extra Large FTE: This is the calculated assignment for faculty assigned to extra large |
| XL FTE Extra Large FTE: This is the calculated assignment for faculty assigned to extra large sections (greater than 60 census enrollments). The current practice is not to assign FTI |
| Example: if census>60, 50% of the section FTE assignment for each additional group of |
| 25 (additional tiers). |
| WSCH Weekly Student Contact Hours |
| The term "WSCH" is used as a total for weekly student contact hours AND as the ratio |
| the total WSCH divided by assigned FTEF. |
| Example: 20 sections of 40 students at census enrolled for 3 hours per week taught b |
| 4.00 FTEF faculty. $(20 \times 40 \times 3) = 2,400 \text{ WSCH} / 4.00 \text{ FTEF} = 600 \text{ WSCH/FTEF}.$ |
| WSCH to Using the example above: 2,400 WSCH x 35 weeks = 84,000 student contact hours = |
| FTES 84,000 / 525 = 160 FTES (see FTES definition). |
| Simplified Formulas: FTES = WSCH/15 or WSCH = FTES x 15 |
| District Program WSCH ratio goal. WSCH/FTEF |
| Goal The District goal was set in 2006 to recognize the differences in program productivity. |

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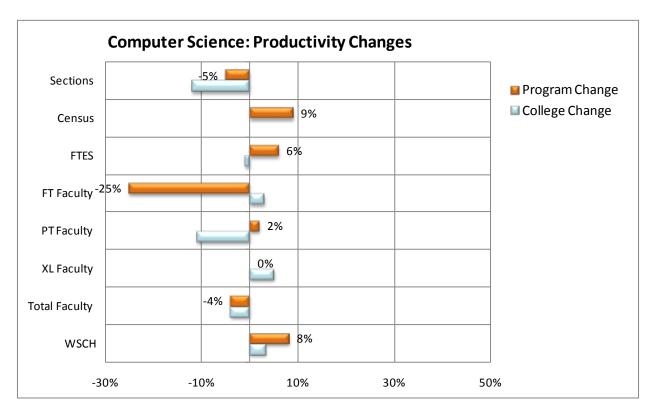
C2: Productivity Summary Table

This table is a summary of the detail information provided in the *Program Review Productivity Report*. The "3 Year Average" was computed to provide a trend benchmark to compare the results of the prior three years to the FY11 results. The "FY11 College" percentages are included to provide a benchmark to compare the program's percentages.

| | | | | 3 Year | | Program | College |
|---------------|------|------|------|---------|------|---------|---------|
| Title | FY08 | FY09 | FY10 | Average | FY11 | Change | Change |
| Sections | 5 | 7 | 7 | 6 | 6 | -5% | -12% |
| Census | 152 | 221 | 246 | 206 | 224 | 9% | 0% |
| FTES | 20 | 29 | 31 | 27 | 28 | 6% | -1% |
| FT Faculty | - | 0.23 | 0.23 | 0.16 | 0.12 | -25% | 3% |
| PT Faculty | 0.58 | 0.55 | 0.58 | 0.57 | 0.58 | 2% | -11% |
| XL Faculty | - | - | - | - | - | 0% | 5% |
| Total Faculty | 0.58 | 0.78 | 0.82 | 0.73 | 0.70 | -4% | -4% |
| WSCH | 517 | 558 | 567 | 555 | 600 | 8% | 3% |

C3: Comparative Productivity Changes Chart

This chart illustrates the percentage change from the prior three year average productivity to the FY11 productivity. The top bar for each budget category represents the program's change in productivity and includes the data label. The second bar represents the college's change in productivity.



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| C4: Interpretation | of the | Program | Productivity | Information |
|--------------------|--------|----------------|--------------|-------------|
|--------------------|--------|----------------|--------------|-------------|

The full-time faculty productivity is an anomaly that is dependent upon the way one full-time math faculty member teaching one CS class each semester had her load calculated.

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D1: District WSCH Ratio Productivity Table

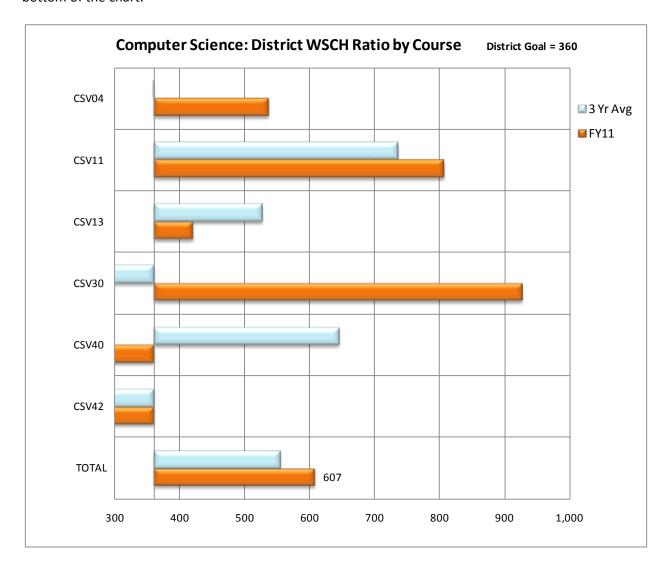
This table shows the District WSCH ratio (WSCH/FTEF) for each course by year for this program. Courses not offered during FY11 (last year) or without faculty load (independent study) are excluded. Because these are ratios, the combined average is computed using total WSCH and total FTEF (not the average of ratios). The formula used in this table distributes FTEF to all cross-listed sections (proportional to census enrollment) but does not include the associated faculty costs of extra large assignment. District WSCH Ratio = WSCH / (PT FTE + FT FTE).

| | District WSCH Ratio: Weekly Student Contact Hours/(FT FTE+PT FTE) | | | | | | | | | | | |
|--------|---|------|------|------|----------|------|--------|-----------|--------|--|--|--|
| Course | Title | FY08 | FY09 | FY10 | 3 Yr Avg | FY11 | Change | Dist Goal | % Goal | | | |
| CSV04 | Computers and Computer Lit | 1 | 429 | 289 | 359 | 536 | 49% | 360 | 149% | | | |
| CSV11 | Programming Fundamentals | 652 | 860 | 712 | 735 | 806 | 10% | 360 | 224% | | | |
| CSV13 | Object-Oriented Programming | 463 | 497 | 617 | 526 | 420 | -20% | 360 | 117% | | | |
| CSV30 | Beginning C++ | - | - | - | - | 926 | 0% | 360 | 257% | | | |
| CSV40 | Beginning Java | 532 | 669 | 687 | 644 | i | -100% | 360 | 0% | | | |
| CSV42 | Intermediate Java | 293 | 277 | - | 285 | - | -100% | 360 | 0% | | | |
| TOTAL | Annual District WSCH Ratio | 518 | 562 | 571 | 554 | 607 | 10% | 360 | 169% | | | |

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D2: District WSCH Ratio Productivity Chart

This chart illustrates the course level District WSCH ratio. The top bar shows the program's three year average. The second bar shows the program's FY11 WSCH ratio. The axis represents the District WSCH ratio goal set in 2006. The program's (or subject's) total WSCH ratio is shown as the TOTAL at the bottom of the chart.



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D3: College WSCH Ratio Productivity Table

This table shows the College's WSCH ratio (WSCH/FTEF) for each course by year for the program. Courses not offered during FY11 (last year) or without faculty load (independent study) are excluded. Because these are ratios, the combined average is computed using total WSCH and total FTEF (not the average of ratios). The formula used in this table includes the associated faculty costs of extra large sections. Faculty teaching extra large sections are paid stipends equal to 50% of their section FTE assignment for each group of 25 students beyond the first 60 students (calculated in this table as XL FTE). This College WSCH Ratio is a more valid representation of WSCH productivity. The College WSCH Ratio will be used in the program review process.

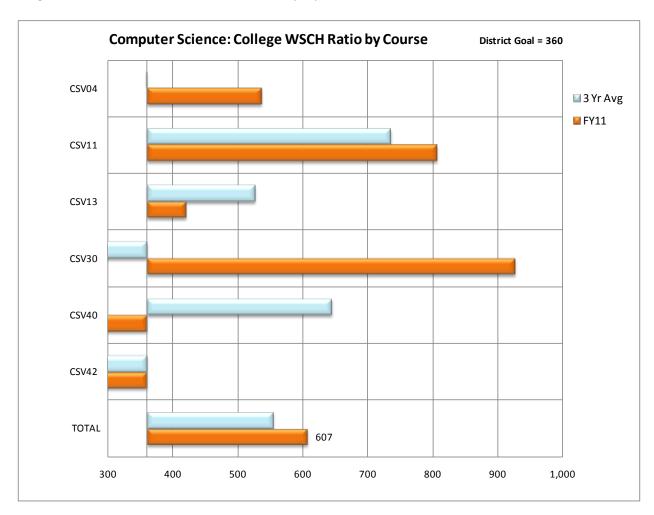
College WSCH Ratio = WSCH / (PT FTE + FT FTE + XL FTE)

| | College WSCH Ratio: Weekly Student Contact Hours/(FT FTE + PT FTE + XL FTE) | | | | | | | | | | | |
|--------|---|-----|-----|-----|-----|-----|-------|-----|------|--|--|--|
| Course | Course Title FY08 FY09 FY10 3 Yr Avg FY11 Change Dist Goal | | | | | | | | | | | |
| CSV04 | Computers and Computer Lit | - | 429 | 289 | 359 | 536 | 49% | 360 | 149% | | | |
| CSV11 | Programming Fundamentals | 652 | 860 | 712 | 735 | 806 | 10% | 360 | 224% | | | |
| CSV13 | Object-Oriented Programming | 463 | 497 | 617 | 526 | 420 | -20% | 360 | 117% | | | |
| CSV30 | Beginning C++ | - | - | - | - | 926 | 0% | 360 | 257% | | | |
| CSV40 | Beginning Java | 532 | 669 | 687 | 644 | - | -100% | 360 | 0% | | | |
| CSV42 | Intermediate Java | 293 | 277 | - | 285 | - | -100% | 360 | 0% | | | |
| TOTAL | Annual College WSCH Ratio | 518 | 562 | 571 | 554 | 607 | 10% | 360 | 169% | | | |

2011-2012

D4: College WSCH Ratio Productivity Chart

This chart illustrates the course level College WSCH ratio. The top bar shows the program's three year average. The second bar shows the FY11 WSCH ratio. The axis represents the District WSCH ratio goal set in 2006. The program's (or subject's) total WSCH ratio is shown as the TOTAL at the bottom of the chart. The computation used for the College WSCH Ratio includes XL FTE (extra-large sections) and the assignment of FTEF to all cross-listed sections (proportional to census enrollment).



D5: Productivity Detail Report

The program's detail productivity information is available in *Appendix B – Program Review Productivity Report*. This report is a PDF document and is searchable. The productivity information was extracted from the District's Banner Student System. The productivity information includes all information associated with the program's subject codes. The *Program Review Productivity Report* is sorted by subject code (alphabetical order) and includes the following sections: productivity measures and WSCH ratios by course by year.

2011-2012

<u>D6: Interpretation of the Program Course Productivity Information</u>

The inconsistencies in the productivity portrayed above is largely due to the fact that the CS schedule is very limited and it changes from year to year. Despite these fluctuations, productivity is considerably higher than the district goal in every course every year portrayed above.

2011-2012

E1: Student Success Terminology

| Census | Number of students enrolled at Census (typically the 4 th week of class for fall and |
|---------|---|
| | spring). Census enrollment is used to compute WSCH and FTES for funding purposes. |
| Retain | Students completing the class with any grade other than W or DR divided by Census |
| | Example: 40 students enrolled, 5 students dropped prior to census,35 students were |
| | enrolled at census, 25 students completed the class with a grade other than W or DR: |
| | Retention Rate = 25/35 = 71% |
| Success | Students completing the class with grades A, B, C, CR or P divided by Census |
| | Excludes students with grades D, F, or NC. |

E2: Student Success Summary

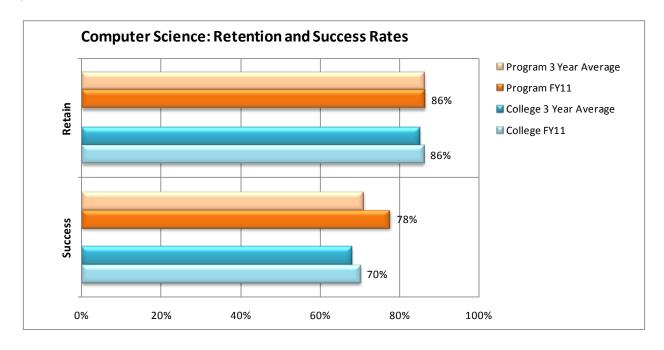
The following two tables summarize the detail information provided in the *Appendix C - Program Review Student Success Report*. The first table shows the number of students. The second table shows the percentage of students. Both tables show the distribution of student grades by year for the program (subject). They show the number of students who were counted at census, completed the class (retention), and were successful. The "3 Year Average" was computed to provide a trend benchmark to compare the prior three year expenses to the FY11 success measures. The "College" success percentages are included to compare the results of the program to the results of the college.

| Subject | Fiscal Year | Α | В | С | P/CR | D | F | W | NC | Census | Retain | Success |
|---------|-------------|-----|-----|-----|------|----|-----|-----|----|--------|--------|---------|
| CS | FY08 | 71 | 28 | 14 | - | 11 | 4 | 20 | 1 | 149 | 128 | 113 |
| CS | FY09 | 108 | 23 | 8 | 1 | 18 | 30 | 25 | 1 | 214 | 189 | 140 |
| CS | FY10 | 148 | 17 | 12 | - | 16 | 12 | 39 | 1 | 244 | 205 | 177 |
| CS | 3 Year Avg | 109 | 23 | 11 | - | 15 | 15 | 28 | 1 | 202 | 174 | 143 |
| CS | FY11 | 133 | 15 | 21 | - | 8 | 11 | 30 | 1 | 218 | 188 | 169 |
| | | | | | | | | | | | | |
| Subject | Fiscal Year | Α | В | С | P/CR | D | F | W | NC | Census | Retain | Success |
| CS | FY08 | 48% | 19% | 9% | 0% | 7% | 3% | 13% | 1% | | 86% | 76% |
| CS | FY09 | 50% | 11% | 4% | 0% | 8% | 14% | 12% | 0% | | 88% | 65% |
| CS | FY10 | 61% | 7% | 5% | 0% | 7% | 5% | 16% | 0% | | 84% | 73% |
| CS | 3 Year Avg | 54% | 11% | 5% | 0% | 7% | 7% | 14% | 0% | | 86% | 71% |
| CS | FY11 | 61% | 7% | 10% | 0% | 4% | 5% | 14% | 0% | | 86% | 78% |
| College | 3 Year Avg | 33% | 19% | 12% | 5% | 5% | 10% | 15% | 2% | | 85% | 68% |
| College | FY11 | 33% | 20% | 13% | 3% | 5% | 10% | 14% | 2% | | 86% | 70% |

2011-2012

E3: Retention and Success Rates

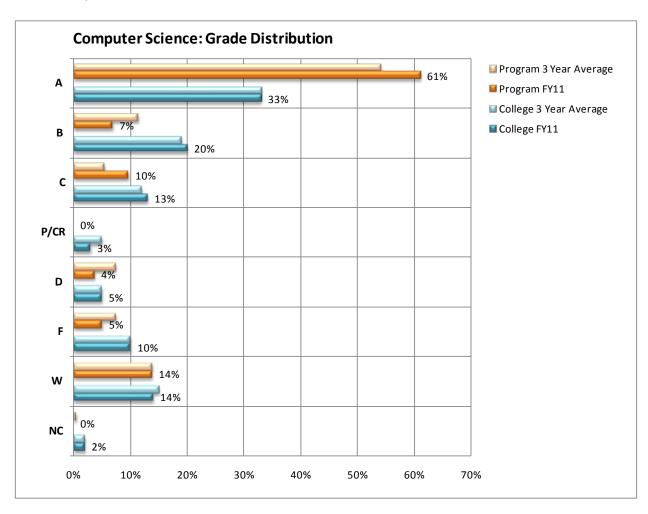
This chart illustrates the retention and success rates of students who were counted at census. Each measure has four bars. The first bar represents the program's prior three year average percent. The second bar shows last year's (FY11) percent. The third and fourth bars represent the overall college percents.



2011-2012

E4: Grade Distribution

This chart illustrates the program's distribution of grades (by subject). Each grade has four bars. The first bar represents the program's prior three year average percent of grades. The second bar shows last year's (FY11) grade distribution percents. The third and fourth bars represent the overall college distribution percents.



E5: Student Success Detail Report

The program student success detail information is available in *Appendix C – Program Review Student Success Report*. This report is a PDF document and is searchable. The student success information was extracted from the District's Banner Student System. The student success information includes all information associated with the program's subject codes. The *Program Review Student Success Report* is sorted by subject code (alphabetical order) and includes the following sections: comparative summary and course detail by term. The following table defines the terminology.

2011-2012

E6: Interpretation of Program Retention, Student Success, and Grade Distribution

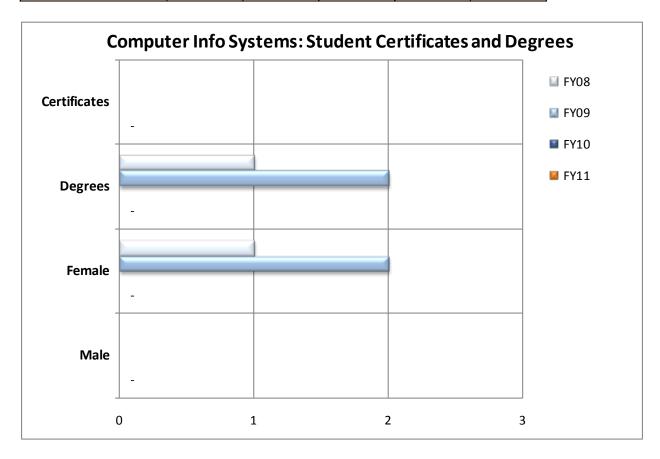
Retention is consistent with college averages, but success appears to be better in CS than the college average. The statistics also show a higher number of A's and fewer B's and C's than the college averages. These statistics suggest that further study must be done to determine the reasons for the disproportionate percentages of A's, B's and C's.

2011-2012

F1: Program Completion – Student Awards

This table shows the number of students who completed a program certificate or degree during the fiscal year. Gender distribution is included. The following chart illustrates this information.

| Program | FY | Certificates | Degrees | Female | Male |
|--------------------------|------|--------------|---------|--------|------|
| Computer Information Sys | FY08 | - | 1 | 1 | - |
| Computer Information Sys | FY09 | - | 2 | 2 | - |
| Computer Information Sys | FY10 | - | - | - | - |
| Computer Information Sys | FY11 | - | - | - | - |
| Total Awards in 4 Years | | - | 3 | 3 | - |



F2: Interpretation of the Program Completion Information

Though a CS degree program was created with the intent of implementing it, but it was created immediately prior to repeated state budget crises. These fiscal constraints precluded offering the full complement of classes; therefore it has not yet been possible to take enough CS courses to earn a degree.

2011-2012

G1: Student Demographics Summary Tables

This table shows the program and college census enrollments for each demographic category. It also shows the average age of the students. The program FY11 results can be compared to its prior three year average, the college FY11 results, and the college prior three year average.

| Subject | FY | Hispanic | White | Asian | Afr Am | Pac Isl | Filipino | Nat Am | Other | Female | Male | Other | Avg Age |
|---------|------------|----------|--------|-------|--------|---------|----------|--------|-------|--------|--------|-------|---------|
| CS | FY08 | 40 | 66 | 9 | 3 | 3 | 9 | 2 | 17 | 21 | 127 | 1 | 25 |
| CS | FY09 | 66 | 102 | 14 | 7 | 1 | 10 | 1 | 14 | 34 | 180 | - | 25 |
| CS | FY10 | 73 | 116 | 15 | 3 | - | 12 | 4 | 21 | 42 | 202 | - | 24 |
| CS | 3 Year Avg | 60 | 95 | 13 | 4 | 1 | 10 | 2 | 17 | 32 | 170 | - | 25 |
| CS | FY11 | 72 | 104 | 22 | 7 | - | 5 | 2 | 6 | 44 | 174 | - | 23 |
| College | 3 Year Avg | 11,806 | 11,169 | 988 | 1,005 | 217 | 827 | 403 | 2,302 | 15,888 | 12,694 | 134 | 27 |
| College | FY11 | 13,034 | 10,566 | 977 | 1,040 | 196 | 886 | 402 | 1,688 | 15,734 | 13,014 | 40 | 24 |

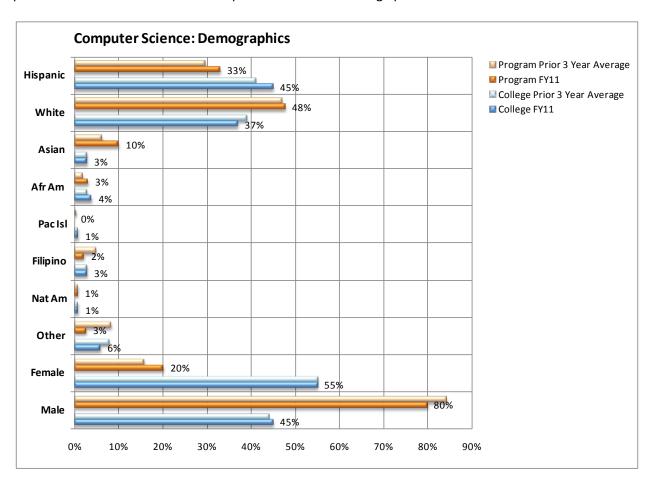
This table shows the program and college percentage of census enrollments for each demographic category.

| Subject | FY | Hispanic | White | Asian | Afr Am | Pac Isl | Filipino | Nat Am | Other | Female | Male | Other | Avg Age |
|---------|------------|----------|-------|-------|--------|---------|----------|--------|-------|--------|------|-------|---------|
| CS | FY08 | 27% | 44% | 6% | 2% | 2% | 6% | 1% | 11% | 14% | 85% | 1% | 25 |
| CS | FY09 | 31% | 48% | 7% | 3% | 0% | 5% | 0% | 7% | 16% | 84% | 0% | 25 |
| CS | FY10 | 30% | 48% | 6% | 1% | 0% | 5% | 2% | 9% | 17% | 83% | 0% | 24 |
| CS | 3 Year Avg | 30% | 47% | 6% | 2% | 0% | 5% | 1% | 8% | 16% | 84% | 0% | 25 |
| CS | FY11 | 33% | 48% | 10% | 3% | 0% | 2% | 1% | 3% | 20% | 80% | 0% | 23 |
| College | 3 Year Avg | 41% | 39% | 3% | 3% | 1% | 3% | 1% | 8% | 55% | 44% | 0% | 27 |
| College | FY11 | 45% | 37% | 3% | 4% | 1% | 3% | 1% | 6% | 55% | 45% | 0% | 24 |

2011-2012

G2: Student Demographics Chart

This chart illustrates the program's percentages of students by ethnic group. Each group has four bars. The first bar represents the program's prior three year percent. The second bar shows last year's (FY11) percent. The third and fourth bars represent the overall college percents.



G3: Student Demographics Detail Report

The program student success detail information is available in *Appendix D – Program Review Student Demographics Report*. This report is a PDF document and is searchable. The student success information was extracted from the District's Banner Student System. The student demographic information includes all information associated with the program's subject codes. The *Program Review Student Demographics Report* is sorted by subject code (alphabetical order) and includes the following sections: comparative summary by year, and detail demographics by term and course.

G4: Interpretation of the Program Demographic Information

It appears that the CS enrollments are largely dominated by males. This is counter to college's averages which shows more female enrollments than males in other programs. Additionally, statistics suggest significantly fewer Hispanics enroll in CS courses. This information suggests that the program should attempt to attract more females and Hispanics into the program.

2011-2012

2011-2012

4. Performance Assessment

A1: Program-Level Student Learning Outcomes

| Program-Level Student Learning Outcome 1 | Performance Indicators |
|--|------------------------|
| | |
| | |
| | |
| | |
| | |
| Operation | ng Information |
| | |
| Analysis | s – Assessment |
| | |

| Program-Level Student Learning Outcome 2 | Performance Indicators | | | | |
|--|------------------------|--|--|--|--|
| | | | | | |
| Operating Information | | | | | |
| · | | | | | |
| Analysis – Assessment | | | | | |
| | | | | | |

2011-2012

| Program-Level Student Learning Outcome 3 | Performance Indicators | | | | |
|--|------------------------|--|--|--|--|
| | | | | | |
| | | | | | |
| Operating Information | | | | | |
| | | | | | |
| Analysis – Assessment | | | | | |
| | | | | | |

2011-2012

4B: Student Success Outcomes

| Student Success Outcome 1 | Performance Indicators | | | | |
|--|--|--|--|--|--|
| The program will increase its retention rate from the average of the program's prior three-year retention rate. The retention rate is the number of students who finish a term with any grade other than W or DR divided by the number of students at census. | The program will increase the retention rate by 2% or more above the average of the program's retention rate for the prior three years. | | | | |
| Operati | ng Information | | | | |
| | | | | | |
| Analysis – Assessment | | | | | |
| The program is currently operating at the college as | verage. | | | | |

| Student Success Outcome 2 | Performance Indicators | | | | |
|--|--|--|--|--|--|
| The program will increase its retention rate from the average of the college's prior three-year retention rate. The retention rate is the number of students who finish a term with any grade other than W or DR divided by the number of students at census. | The program will increase the retention rate by 2% or more above the average of the college retention rate for the prior three years. | | | | |
| Operati | ng Information | | | | |
| The program only has one part-time faculty member assigned to it. There must be more faculty commitment and involvement to facilitate change. | | | | | |
| Analysis – Assessment | | | | | |
| | | | | | |

2011-2012

| Student Success Outcome 3 | Performance Indicators | | | | | |
|---|---|--|--|--|--|--|
| The program will increase the student success rates from the average of the program's prior three-year success rates. The student success rate is the percentage of students at census | The program will increase student success rate by 2% or more above the program's average student success rate for the prior three years. | | | | | |
| who receive a grade of C or better. | | | | | | |
| Opera | Operating Information | | | | | |
| | | | | | | |
| Analysis – Assessment | | | | | | |
| The program currently realizes a higher level of s | uccess than the college average. | | | | | |

| Student Success Outcome 4 | Performance Indicators | | | | | |
|---|--|--|--|--|--|--|
| The program will increase the student success rates from the average of the college's prior three-year success rates. The student success rate is the percentage of students at census who receive a grade of C or better. | The program student success will increase by 5% over the average of the college's student success rate for the prior three years. | | | | | |
| Opera | ating Information | | | | | |
| | | | | | | |
| Analysis – Assessment | | | | | | |
| In FY11 the program operated at 8% above the college average. | | | | | | |

2011-2012

| Student Success Outcome 5 | Performance Indicators | | | | |
|--|--|--|--|--|--|
| Students will complete the program earning certificates and/or degrees. | Increase the number of students earning a certificate to a minimum of 20% of the number of students enrolled in second-year courses. | | | | |
| Opera | ting Information | | | | |
| The program cannot produce any degrees without a commitment by the college to offer the full complement of CS courses. | | | | | |
| Analysis – Assessment | | | | | |
| | | | | | |

2011-2012

C. Program Operating Outcomes

| Program Operating Outcome 1 | Performance Indicators | | | | |
|---|---|--|--|--|--|
| The program will maintain WSCH/FTEF above the 525 goal set by the district. | The program will exceed the efficiency goal of 525 set by the district by 2%. | | | | |
| Operating Information | | | | | |
| | | | | | |
| Analysis – Assessment | | | | | |
| The program currently operates at 169% of the district goal. | | | | | |

| Program Operating Outcome 2 | Performance Indicators | | | | |
|--|--|--|--|--|--|
| Inventory of instructional equipment is | A current inventory of all equipment in the program will | | | | |
| functional, current, and otherwise adequate to | be maintained. Equipment having a value over \$5000 will | | | | |
| maintain a quality-learning environment. | have a service contract. A schedule for service life and | | | | |
| Inventory of all equipment over \$200 will be | replacement of outdated equipment will reflect the total | | | | |
| maintained and a replacement schedule will be | cost of ownership. | | | | |
| developed. Service contracts for equipment over | | | | | |
| \$5000 will be budgeted if funds are available. | | | | | |
| Operat | Operating Information | | | | |
| The inventory list is out of date and needs to be reviewed (3B1) | | | | | |
| Analysis – Assessment | | | | | |
| | | | | | |

2011-2012

| Program Operating Outcome 3 | Performance Indicators |
|--|--|
| No outcomes have been generated since | |
| there is only one part-time faculty assigned | |
| to the program | |
| | |
| | |
| Operati | ng Information |
| The program must have a full-time faculty member | to update the curriculum and generate and evaluate |
| student learning outcomes. | |
| Analysis | s – Assessment |
| | |

| Program Operating Outcome 4 | Performance Indicators |
|-----------------------------|------------------------|
| | |
| | |
| Opera | ating Information |
| | |
| Analy | rsis – Assessment |
| | |

2011-2012

5. Findings

Finding 1 A full-time faculty member is necessary for the program to flourish. For several years the program has done nothing more than to exist to provide a few basic CS courses for Science majors who need them in order to transfer. There have been no updates to the program, and student learning outcomes have not been created or assessed.

| _ | |
|-----------|--|
| Finding 3 | |
| Finding 4 | |

Finding 2

2011-2012

6. Initiatives

Initiative Hire a full-time CS faculty member to update the program.

Initiative ID CS 6-1

Links to Finding 1

Benefits: Revamping of the program, growth of the program, increase in the number of degrees, and better access to courses necessary for transfer for the Science majors.

Request for Resources Approximately \$100,000 for salary and benefits

Funding Sources General fund budget

| No new resources are required (use existing resources) | N |
|---|---|
| Requires additional general funds for personnel, supplies or services | Υ |
| (includes maintenance contracts) | |
| Requires computer equipment funds (hardware and software) | Υ |
| Requires college equipment funds (other than computer related) | N |
| Requires college facilities funds | N |
| Requires other resources (grants, etc.) | N |

2011-2012

| Initiative | |
|--------------------|--|
| Initiative ID | |
| Links to Finding 2 | |
| Benefits | |
| | |

Request for Resources

Funding Sources

Please check one or more of the following funding sources.

| No new resources are required (use existing resources) | |
|---|--|
| Requires additional general funds for personnel, supplies or services | |
| (includes maintenance contracts) | |
| Requires computer equipment funds (hardware and software) | |
| Requires college equipment funds (other than computer related) | |
| Requires college facilities funds | |
| Requires other resources (grants, etc.) | |

2011-2012

| Initiative |
|------------|
|------------|

Initiative ID

Links to Finding 3

Benefits

Request for Resources

Funding Sources

| No new resources are required (use existing resources) | |
|---|--|
| Requires additional general funds for personnel, supplies or services | |
| (includes maintenance contracts) | |
| Requires computer equipment funds (hardware and software)) | |
| Requires college equipment funds (other than computer related) | |
| Requires college facilities funds | |
| Requires other resources (grants, etc.) | |

2011-2012

| Initiative | |
|--------------------|--|
| Initiative ID | |
| Links to Finding 4 | |
| Benefits | |

Request for Resources

Funding Sources

| No new resources are required (use existing resources) | |
|---|--|
| Requires additional general funds for personnel, supplies or services | |
| (includes maintenance contracts) | |
| Requires computer equipment funds (hardware and software) | |
| Requires college equipment funds (other than computer related) | |
| Requires college facilities funds | |
| Requires other resources (grants, etc.) | |

2011-2012

6A: Initiatives Priority Spreadsheet

The following blank tables represent Excel spreadsheets and will be substituted with a copy of the completed Excel spreadsheets.

Personnel –Faculty Requests

| Other | Program | Program Priority (0, 1, 2, 3) | Division Priority (R,H,M,L) | Committee Priority (R, H, M, L) | College Priority (R, H, M, L) | Initiative ID | Initiative Title | Resource Description | Estimated Cost | No New Resources Requested | General Fund | Other |
|-------|---------|-------------------------------|--------------------------------|------------------------------------|----------------------------------|---------------|------------------|----------------------|----------------|-------------------------------|--------------|-------|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | · | | | | | | | | |
| 4 | | | | · | | | | | | | | |
| 5 | | | | | | | | | | | | |

<u>Personnel – Other Requests</u>

| Personnel - Other | Program | Program Priority (0, 1, 2, 3) | Division Priority (R,H,M,L) | Committee Priority (R, H, M, L) | College Priority (R, H, M, L) | Initiative ID | Initiative Title | Resource Description | Estimated Cost | No New Resources Requested | New General Funds | Other |
|-------------------|---------|-------------------------------|--------------------------------|------------------------------------|----------------------------------|---------------|------------------|----------------------|----------------|-------------------------------|-------------------|-------|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |

2011-2012

Computer Equipment and Software

| Equipment - Computer Related | Program | Program Priority (0, 1, 2, 3) | Division Priority (R,H,M,L) | Committee Priority (R, H, M, L) | College Priority (R, H, M, L) | Initiative ID | Initiative Title | Resource Description | Estimated Cost | No New Resources Requested | Technology Fund | Other |
|---------------------------------|---------|-------------------------------|--------------------------------|------------------------------------|----------------------------------|---------------|------------------|----------------------|----------------|-------------------------------|-----------------|-------|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |

Other Equipment Requests

| Equipment | Program | Program Priority (0, 1, 2, 3) | Division Priority (R,H,M,L) | Committee Priority (R, H, M, L) | College Priority (R, H, M, L) | Initiative ID | Initiative Title | Resource Description | Estimated Cost | No New Resources Requested | Equipment Fund | Other |
|-----------|---------|-------------------------------|--------------------------------|------------------------------------|----------------------------------|---------------|------------------|----------------------|----------------|-------------------------------|----------------|-------|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | · | | | | | | | | |
| 5 | | | | · | | | | | | | | |

Facilities Requests

| Facilities | Program | Program Priority (0, 1, 2, 3) | Division Priority (R,H,M,L) | Committee Priority (R, H, M, L) | College Priority (R, H, M, L) | Initiative ID | Initiative Title | Resource Description | Estimated Cost | No New Resources Requested | Facilities Fund | Other |
|------------|---------|-------------------------------|--------------------------------|------------------------------------|----------------------------------|---------------|------------------|----------------------|----------------|-------------------------------|-----------------|-------|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |

2011-2012

Other Resource Requests

| Other Resources | Program | Program Priority (0, 1, 2, 3) | Division Priority (R,H,M,L) | Committee Priority (R, H, M, L) | College Priority (R, H, M, L) | Initiative ID | Initiative Title | Resource Description | Estimated Cost | No New Resources Requested | General Fund | Other |
|-----------------|---------|-------------------------------|--------------------------------|------------------------------------|----------------------------------|---------------|------------------|----------------------|----------------|-------------------------------|--------------|-------|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | _ | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |

6B: Program Level Initiative Prioritization

All initiatives will first be prioritized by the program staff. If the initiative can be completed by the program staff and requires no new resources, then the initiative should be given a priority 0 (multiple priority 0 initiatives are allowed). All other initiatives should be given a priority number starting with 1 (only one 1, one 2, etc.).

6C: Division Level Initiative Prioritization

The program initiatives within a division will be consolidated into division spreadsheets. The dean may include additional division-wide initiatives. All initiatives (excluding the '0' program priorities) will then be prioritized using the following priority levels:

- **R**: Required mandated or unavoidable needs (litigation, contracts, unsafe to operate conditions, etc.).
- **H**: High approximately 1/3 of the total division's initiatives by resource category (personnel, equipment, etc.)
- **M**: Medium approximately 1/3 of the total division's initiatives by resource category (personnel, equipment, etc.)
- L: Low approximately 1/3 of the total division's initiatives by resource category (personnel, equipment, etc.)

6D: Committee Level Initiative Prioritization

The division's spreadsheets will be prioritized by the appropriate college-wide committees (staffing, technology, equipment, facilities) using the following priority levels.

- **R**: Required mandated or unavoidable needs (litigation, contracts, unsafe to operate conditions, etc.).
- **H**: High approximately 1/3 of the total division's initiatives by resource category (personnel, equipment, etc.)
- **M**: Medium approximately 1/3 of the total division's initiatives by resource category (personnel, equipment, etc.)
- L: Low approximately 1/3 of the total division's initiatives by resource category (personnel, equipment, etc.)

2011-2012

6E: College Level Initiative Prioritization

Dean's will present the consolidated prioritized initiatives to the College Planning Council. The College Planning Council will then prioritize the initiatives using the following priority levels.

R: Required – mandated or unavoidable needs (litigation, contracts, unsafe to operate conditions, etc.).

H: High – approximately 1/3 of the total division's initiatives by resource category (personnel, equipment, etc.)

M: Medium – approximately 1/3 of the total division's initiatives by resource category (personnel, equipment, etc.)

L: Low – approximately 1/3 of the total division's initiatives by resource category (personnel, equipment, etc.)

2011-2012

7A: Appeals

After the program review process is complete, your program has the right to appeal the ranking of initiatives.

If you choose to appeal, please complete the form that explains and supports your position. The appeal will be handled at the next higher level of the program review process.

7B: Process Assessment

In this first year of program review using the new format, programs will be establishing performance indicators (goals) for analysis next year. Program review will take place annually, but until programs have been through an entire annual cycle, they cannot completely assess the process. However, your input is very important to us as we strive to improve, and your initial comments on this new process are encouraged.