Solano Community College 2007-2008 Instructional Program Review: Career Technical Education

Introduction & Overview

The Instructional Program Review is carried out by the faculty and deans within each academic division; the General Program Review is the responsibility of individual unit managers. Both are integral components of Solano Community College's annual evaluation, planning, and budget development cycle. The outcomes of the Program Review process support the first component (evaluation), which informs the second (planning), which then impacts the third (budget development).

At Solano, the Program Review process includes the ongoing collection of both qualitative and quantitative data and the examination of trends in these data over time. The collection and examination of data then leads to the evaluation of program effectiveness and efficiency. Finally, reviewers develop recommendations for program improvement. These recommendations are assessed by peers and administrators for both feasibility and alignment with the College's Strategic Goals/Objectives and Educational Master Plan. Recommendations that require no new/additional funding can be implemented directly; those dependent on new/additional funds are prioritized and submitted for budgeting. Once implemented, the recommended changes are evaluated in the subsequent round of the Program Review process — and the cycle continues.

The Program Review report contains: 1) a narrative description of the unit and of each program or service offered, including mission, goals, and desired outcomes — student-learning or service-area outcomes (SLOs and SAOs, respectively); 2) both quantitative and qualitative data relative to unit/program performance; 3) an evaluation of the unit/program effectiveness and efficiency; 4) an analysis of trends; 5) recommended changes and expected outcomes; and 6) a description of unit/program needs to implement the recommended changes and achieve the expected outcomes.

Although performed by all units on an annual basis, the Program Review is only published for a specific unit every fourth year, according to a defined schedule. Programs Reviews published in the fall 2008 are based on the prior academic year's data (AY 2007-08). Where possible, up to an additional four years of data may be included to demonstrate trends.

Robert J. Simas Director, Research & Planning

Definitions

FTES

Full-time Equivalent Student (FTES) is the unit of measure based on student attendance patterns used by the State on the formula for apportionment of funds:

525 WSCH = 1 FTES [Source: First Census counts from End of Semester SCC10 report]

WSCH

Weekly Student Contact Hours (WSCH) is the number of students in a class multiplied by the number of hours the class meets per week. For example, a class of 32 students that meets 3 hours per week generates 96 WSCH. WSCH is the primary factor used in the formula to calculate FTES. [Source: First Census counts from End of Semester SCC10 report]

Enrollment

Enrollment totals are measured as the number of seats filled in classes offered. [Source: NSR report]

FTEF

Full-time Equivalent Faculty (FTEF) is the measure that identifies the use of a full-time instructor for implementing an instructional program. Fifteen hours is the base formula hours (lecture-hour equivalents). For example, a three-hour lecture class is valued at .20 FTEF, (3/15 = .20). A full-time instructor would teach five, three-hour lecture classes. [Source: First Census counts from End of Semester SCC10 report]

Load

Load is a measure of relative performance of a program. Load is calculated by dividing WSCH by FTEF. For example, a class that is worth 0.2 FTEF and generates 96 WSCH will have a Load of 480 (WSCH divided by FTEF). Generally, larger classes generate higher loads. [Source: First Census counts from End of Semester SCC10 Report]

Percent Fill

The percentage of available class seats filled at first census. [Source: SCC30 report.]

Percent Retention

The percentage of seats filled at the end of semester compared to the seats filled at first census. [Source: SCC30 report.]

Apportionment Income

The State funding allocation per FTES multiplied by FTES. (For 2007-2008 one FTES was valued at \$4,367.) [Source: Office of Administrative and Business Services.]

Expense

Direct Expense includes salaries (1000, 2000, and 3000 budget codes), materials (4000 and 5000 budget codes), and capital outlay (6000 budget codes) expenditures incurred by the program during the academic year. (Years prior to 1998-1999 do not include materials, capital outlay, or VEA funds as part of their total direct expenses.) [Source: Office of Fiscal Services.]

Cost/FTES

The cost to generate one FTES in the program. (Total Expense divided by FTES).

Growth/Decline

The percent change in a measure from the prior year.

Percent Successful

The *Percent Successful* is the number of "satisfactory" grades recorded (As, Bs, Cs, and CRs, as defined in the *California Code of Regulations*, Title 5, Div. 6, Chap. 6, Subchap. 9, §55758) compared to the total number of grades of record, including Ws and "substandard" grades (Ds, Fs, and NCs, as defined in the *California Code of Regulations*, Title 5, Div. 6, Chap. 6, Subchap. 9, §55761). This statistic measures grades not students. Since students can take more than one course in a specific term, the college-wide total grades are always higher than the number of students enrolled and should not be confused with headcount — the unduplicated count of individuals. At the programmatic level, duplication is less of a factor, but still exists. For example, it is possible that a student is taking two courses within the same program and is successful in both courses or in one course but not the other. This statistic is calculated only for the last academic year included in the report.

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Program Name:AeronauticsTOPs Code:0950.00 & 0950.20Prepared by:M. DuleckFaculty:T. Mitchell

Aeronautics Department

Part I. Goals/Objectives

1. What are the goals/objectives of the program? (State in terms of student learning outcomes — SLOs.)

- Fulfill students objectives to pass the Federal Aviation Administration (FAA) exams with scores of 90% or higher.
- Update equipment and teaching methods to be more realistic in order to prepare the student for what he/she will be doing on the job.
- Bring student-to-teacher ratio into realistic numbers so students can function safely in the lab and have individual attention.
- Keep faculty current in state-of-the-art advances within his/her discipline as reflected by advances in industry.
- Participate in program expansion to meet the needs of a growing industry and local demands.
- > Review industry demands for skill level of graduates.
- Review requirements for graduates as outlined in *Federal Aviation Regulation*, Part 14.7.
- Bring into line instructors' understanding of student needs in light of industry and FAA requirements.
- Initiate an Advanced Composite Structures program to help enhance student skills.

2. List appropriate indicators of program success (i.e., measures of goals/objectives stated above). Include both quantitative and qualitative measures.

- Student's ability to phase into the working environment with a minimum of additional training.
- Student's ability to pass the FAA exam with a score above the national average.
- Employers' and graduates' reports of satisfaction with the capabilities of recent graduates.
- FAA-designated examiner's report of the quality of students taking the oral and practical exams.

Part II. Analysis

1. Identify and explain the trends in:

Enrollment — Trends in enrollment continue to increase through the 2007-08 academic year. This increase was brought about by the referral of students to the Aeronautics Program, from the SCC Counseling Department and the Travis Air Force Base Education Department. Industry leaders are predicting a major shortage of Airframe & Powerplant (A&P) technicians and the FAA is still trying to bring about a change in the *Federal Aviation Regulation*, Part 65. It is anticipated that both of these will increase enrollment.

Retention — Retention continues to be among the highest in the College (91%-100%). This indicates a desire on the part of the students to finish the program once they have started, because of the inherent rewards for completion.

Fill rate — The fill rate has increased a small amount. This can also be attributed to trends in enrollment (see above).

Other Factors —

- Record numbers of SCC students are receiving passing scores on FAA exams, compared to the numbers graduating from SCC, and compared to national average numbers.
- The recovery of the corporate jet industry and the light sport aircraft in the United States has materialized due, in part, to the ease of maintaining a smaller aircraft, uncomplicated travel requirements, and less operating expenses than commercial airliners.

Qualitative Factors —

- WSCH/FTE has increased dramatically because of the new course, AERO 150: FAA Special Projects and Course Enhancements, which brings in many students for make-up and review.
- Letters/phone calls from industries that employ graduates, stating the graduate's ability to integrate into the workplace with either minimum or no additional training.
- Graduates who are out in the field complete questionnaires or give verbal evaluations of the worth of the program.
- Have a local, designated examiner prepare a written/verbal report on the quality of graduates taking the oral and practical exams.
- One member of the faculty has been assigned to survey the needs of the industry and help students locate available jobs.

2. How do the above trends relate to the program goals identified during the last review?

The present increase in potential jobs has helped, but the high cost of computers and computer-based training programs in the aeronautics field, makes much of the program's current equipment woefully behind the times. The aircraft industry's technology is increasing in cost and complexity every year. (One company has a terrific computer-based training program that would greatly help the program, but it costs \$329,000!) Although enrollment has come up dramatically and night classes have been added, the budget for supplies and equipment remains relatively the same as it was eight years ago. Modified computers that were originally purchased in 1998 are still being used.

Part III. Conclusions and Recommendations

1. What are the major accomplishments of the program since the last report?

The position of a part-time instructor for the A&P program has been filled. The Department still lacks state-of-the-art computers that would allow the use of new, current software.

2. Based on the trend analysis above, are there any changes needed in order to meet program goals or to improve program effectiveness?

With increasing enrollments, the new facility, and an extra class section, the already overburdened materials budget continues to decrease instead of increase. This is partly due to increasing costs in supplies without matching increase in funds, and a growing complexity in the basic requirements for the graduating student to achieve entry-level skills. A program of this nature will not attract students if it cannot provide the hands-on training required to give them the necessary, entry-level skills for the job they seek. With the competition for jobs the way it is, students will be attracted to the school that can provide the best entry-level skills, for the least expenditures in time and money.

In addition, faculty members should continue to update their expertise with training in order to provide students with state-of-the-art, entry-level skills. Unfortunately, the fact that there is no money to pay for substitute teachers, when most of the training opportunities are during the school year, inhibits recurrent training for instructors.

The Department is also initiating a FAA Composite Repair program that will help increase attendance and give students, who graduate from the program, additional repair skills that are rapidly becoming a necessary part of the industry. The aircraft industry in Solano County is a moderately sized, occupational field. Regional opportunities are more lucrative. Job market supply has not caught up with demand. Employment opportunities are cyclic.

Program Review 2007-08 AERONAUTICS (Summary) TOPs: 0950.00+0950.10+0950.20+0950.40

Career Technical Education Division 11

10FS: 0750.00+0750.10+07		03-04	04-05	05-06	06-07	07-08
FTES	Summer	3.93	3.36	0.00	0.00	0.00
GENERATED	Fall	35.95	22.46	9.33	10.51	11.15
	Spring	28.53	10.37	6.85	7.49	15.35
	ΤΟΤΑΪ	68.41	36.19	16.18	18.00	26.50
Growth/Decline [(Yr2-Yr1)/Yr1]		-24%	-47%	-55%	11%	47%
	Summer	256	219	0	0	(
LOAD	Growth/Decline	-31%	-14%	-100%	N/A	N/A
(WSCH/FTE)	Fall	251	185	112	172	182
	Spring	267	144	137	123	251
	AVERAGE, Fall & Spring	259	165	125	148	217
Growth/Decline [(Yr2-Yr1)/Yr1]		15%	-36%	-24%	18%	47%
	Summer	33	47	0	0	C
ENROLLMENT	Fall	62	47	14	23	22
ENROLEMENT	Spring	52	17	16	25	45
	TOTAL	147	113	30	48	67
Growth/Decline [(Yr2-Yr1)/Yr1]		-16%	-23%	-73%	60%	40%
	Summer	4	4	0	0	C
NUMBER OF	Fall	6	9	11	5	5
SECTIONS	Spring	6	11	8	4	5
Crouth/Dooling (1/r2 /r1)//r1)	TOTAL	16	24	19	9	10
Growth/Decline [(Yr2-Yr1)/Yr1]		-6%	50%	-21%	-53%	11%
	Summer	0.460	0.460	0.000	0.000	0.000
FTEF	Fall	4.300	3.633	2.500	1.834	1.834
	Spring	3.200	2.167	1.500	1.834	1.834
PERCENT	Summer	34%	49%	0%	0%	0%
FILL (1 - t - c - m - m - m - m)	Fall	53%	44%	10%	32%	27%
(1st cen/max enroll)	Spring AVERAGE, Fall & Spring	57% 55%	35% 40%	19% 15%	23% 28%	<u>38%</u> 33%
	mennee, rand opining	3370	4070	1370	2070	3370
PERCENT	Summer	97%	51%	0%	0%	0%
RETENTION	Fall	82%	94%	85%	96%	100%
(EOS/1st cen)	Spring	85%	76%	67%	100%	91%
	AVERAGE, Fall & Spring	84%	85%	76%	98%	96%
APPORTIONMENT						
INCOME		\$239,093	\$126,086	\$68,312	\$78,606	\$115,726
(FTES * Annual Factor)						
	I					
EXPENSE	Salaries	\$259,734	\$250,121	\$213,691	\$158,302	
	Materials	\$15,298	\$23,176	\$3,952	\$10,422	
	Capital Outlay	\$21,939	\$7,565	\$4,336	\$1,138	
	Total Direct	\$296,971	\$280,862	\$221,978	\$169,862	
	Indirect (Direct * .40)	\$118,788	\$112,345	\$88,791	\$67,945	
	TOTAL	\$415,759	\$393,206	\$310,770	\$237,807	\$0
		¢(077	¢10.075	¢10.007	¢10.011	<i></i>
COST/FTES Growth/Decline /(Yr2-Yr1)/Yr1]		\$6,077	\$10,865	\$19,207	\$13,211	\$(
		-15%	79%	77%	-31%	-100%

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008 Solano: Research and Planning

Program Review 2007-08 AERONAUTICS (Summary) TOPs: 0950.00+0950.10+0950.20+0950.40

Career Technical Education Division 11 Year: 2007-08

	White,	African-			Other,	
Summer	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
	۹ 0	0	0	0		0
	3 0	0	0	0		0
	C 0	0	0	0		0
	0 0	0	0	0		0
	F 0	0	0	0		0
C		0	0	0		0
N		0 0	0	0		0 0
TOTAL		0	0	0	0	0
% Successful *	0%	0%	0%	0%	0%	0%
	White,	African-			Other,	
<u>Fall</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
	A 16	1	2	0	1	20
	3 1	0	0	0	2	3
	0	0	0	0		0
		0	0	0	4	4
C	F 1 R 0	0	0	0		0
N		0	0	0		0
		0	0	0		0
TOTAL		1	2	0	7	28
% Successful *	94%	100%	100%	0%	43%	82%
	White,	African-			Other,	
<u>Spring</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
	A 16	5	0	0	10	31
	3 3	2	0	0	2	7
	C 1	1	0	0		2 0
	D 0 F 0	0	0	0		0
C		0	0	0		0
N		0	0	0		0
		0	0	0		1
TOTAL		8	0	0	12	41
% Successful *	95%	100%	0%	0%	100%	98%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 AERONAUTICS (Summary) TOPs: 0950.00+0950.10+0950.20+0950.40

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Career Technical Education Division 11 Year: 2007-08

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<u>Summer</u>		<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A B	0 0	0 0		0 0	0 0	
	С	0	0		0	0	
	D F	0 0	0 0		0	0 0	
	CR	0	0		0	0	
	NC W	0 0	0		0	0 0	
TO	TAL #	0	0	0	-	0	0
% Successful *		0%	0%	0%	0%	0%	0%
F .U		-			FCI		
Fall Grades *	А	<u>F</u> 0	<u>M</u> 20	<u>U</u>	<u>ESL</u> 0	Non-ESL 20	<u>U</u>
Grades	В	0	3		0	3	
	С	0	0		0	0	
	D F	0 0	4		0	4	
	CR	0	0		0	0	
	NC W	0	0		0	0	
TO	TAL #	0 0	0 28	0	0	0 28	0
% Successful *		0%	82%	0%	0%	82%	0%
		_			501		
<u>Spring</u> Grades *	٨٢	<u>F</u> 2	<u>M</u> 29	<u>U</u>	<u>ESL</u> 1	Non-ESL 30	<u>U</u>
Glades	A B	2	29 6		1	50	
	С	0	2		0	2	
	D F	0 0	0		0	0 0	
	CR	0	0		0	0	
	NC	0	0		0	0	
то	W TAL #	0 3	1 38	0	0	1 39	0
% Successful *		100%	97%	0%	100%	97%	0%

*Includes duplicate counts.

8/29/2008

Program Name:CosmetologyTOP Code:3007.00Prepared by:Cheryl McDonaldFaculty:Cheryl McDonald

Cosmetology Department

Part I. Goals/Objectives

1. What are the goals/objectives of the program? (State in terms of student learning outcomes — SLOs.)

To prepare students for job placement in the Cosmetology industry of Solano County and the greater Bay Area, by providing 1600 hours of technical and practical training, to qualify for the California State Board Examination for Cosmetology.

2. List appropriate indicators of program success (i.e., measures of goals/objectives stated above). Include both quantitative and qualitative measures.

Quantitative:

- > The student will complete the state-mandated technical hours.
- > The student will complete the state-mandated practical operations.
- The student will complete the required, state-mandated, 1600 clocked hours.

Qualitative:

- Successful passing of a written test.
- Successful passing of a practical performance evaluation.
- A successful passing score of 75% or higher.
- Biennial Instructional Program Review and Analysis.

Part II. Analysis

1. Identify and explain the trends in:

Enrollment —

- Implementation of a permanent summer program, increased enrollment by 68% from 2003-04 to 2005-06 and resulted in an additional 11% growth of FTES in 2007-08.
- Institution of the permanent evening program in fall 2005, aided in the additional 68% growth of enrollment from 2006-07 to 2007-08 and the 72% increase of FTES from 2005-06 to 2007-08.

- With the College institution of Banner, a new computer software system, some the student progress and achievement indicators for the annual, successful course completion rate may be inaccurate due to the new method of reporting.
- The number of sections offered in fall 2006-07 was eight sections not twelve sections, as reported.

Retention —

- The overall, average retention rate of 90.5% from 2003-04 to 2007-08 is extremely good.
- Summer 2005-06 to 2007-08: average retention of 90.3%; fall 2003-04 to 2007-08: 94.6%; spring 2003-04 to 2007-08: 70.2%. With the implementation of the summer program, students are able to complete the program earlier. This could account for the reduction of 8% retention in 2005-06, and 3% in 2007-08.

Fill rate — Average fill rate from 2003-04 to 2007-08 is an outstanding 116%.

Other Factors —

- The Cosmetology program's completion rate over the last four year has been exceptional. Some of the program successes include:1 AS degree & 15 certificates in 2004-05; 17 certificates in 2005-06; and 4 AS degrees & 26 certificates in 2006-07.
- 100% was the pass rate of students taking their Cosmetology State Board Exams in spring 2007.
- The Cosmetology program is fiscally responsible: 153.45 FTES in 2004-05; 247.28 FTES in 2005-06; 207.70 FTES in 2006-07; 229.85 FTES in 2007-08, and client revenue of \$53,920.40 for 2006-07.
- Institution of an evening Cosmetology program in fall 2005 has enabled an expansion of the program, increasing enrollment opportunities to an additional 50 students annually. This expansion has also optimized a greater use of the facilities and dedicated laboratory classrooms.
- Institution of a permanent summer program has enabled students to complete the program in a timelier manner, helping to retain student enrollment. This summer program has also increased utilization of the facilities and optimized a more effective use of the dedicated laboratory classrooms.
- The Cosmetology faculty and staff work diligently to maintain a high caliber of standards. Faculty contribute through continuing professional education to enhance student learning outcomes and maintain the integrity of the program.

- Continually networking with industry business professionals and working with an advisory board promotes currency with new and upcoming industry trends. It also maintains our relationship with professionals who employ our SCC cosmetology licensed graduates.
- Working with the community and sponsoring community service projects such as Locks of Love, SCC is now a depository for Locks of Love. Cleaning wigs for the American Cancer Society's "Look Good Feel Better" program. Supporting the Red Ribbon Lock-In, held at the Fairfield Community Center for junior high students, offering hair and makeup services. All of these services help to maintain the quality relationship and reputation with the community that the SCC Cosmetology Department has developed over the years.

Qualitative Factors — Factors include FTES, A.S. Degree, Certificates, and State Board Exams.

2. How do the above trends relate to the program goals identified during the last review?

- The goal of a permanent summer program to retain student enrollment and hasten program completion has been achieved. The review analysis shows a significant improvement from 2003-04 to 2007-08 with a 90.6% average.
- The goal of increasing enrollment opportunities by instituting an evening cosmetology program has been extremely successful, with an increase of enrollments in 2005-06 of 68% and an increase of FTES in 2005-06 of 61%.
- The goal of upgrading faculty and staff workstations to meet the ergonomic safety standards as recommended by Keenan & Associates has been achieved.

Part III. Conclusions and Recommendations

1. What are the major accomplishments of the program since the last report?

- Secured funding for professional development for faculty to attend conferences and seminars such as:
 - ◊ Cosmetology Educators of America Conferences, held annually
 - ♦ West Coast Beauty Systems Spring Style Show, held annually
 - ♦ Maly's Beauty Education Symposium
 - ♦ Eva's Professional Skin Care post-graduate program
 - ◊ Academic Senate Vocational Education Leadership Conference
 - ◊ CTA semi-annual conferences
- In spring 2007, SCC achieved a 100% pass rate of students taking their Cosmetology State Board Examinations.
- Mary Ann Haley was voted California Instructor of the Year for 2006 by the California Cosmetology Association.

- SCC Cosmetology Club raised funds to create a SCC Cosmetology Club Scholarship for cosmetology students.
- Pedagogical shifts impacting the delivery of instruction include becoming more computer-based by the anticipated upgrade of lecture classrooms 1626, 1634, and clinic laboratory1610 to smart, wireless classrooms.
- Students participated in the annual California Cosmetologist Association Student Team Competition held in Santa Cruz.
- Yosh Toya, internationally renowned cosmetologist, chose SCC Cosmetology to be one of the 100 selected cosmetology schools in the world to receive a day of education from him. The day of education was held September 19, 2006.

2. Based on the trend analysis above, are there any changes needed in order to meet program goals or to improve program effectiveness?

- A full-time faculty position is required for the advanced cosmetology evening program — COSM 101: Cosmetology II, COSM 102: Cosmetology III, and COSM 103: Cosmetology IV (taught concurrently).
 - This full-time cosmetology faculty position was scheduled to be filled. However, due to budgetary constraints and workload issues, the scheduled full-time faculty position has not been filled. As a result, three adjunct faculty have been hired to teach COSM 101,102 and 103 (concurrent) classes for the night program, which only requires one full-time faculty during the day program. Having multiple adjuncts teach the same classes (COSM 101, 102, and 103) created pedagogic conflicts, produced an inconsistency of both theoretical and practical concepts, and undermined the established SCC instructional methods, procedures, and standards.
 - Multiple adjuncts created confusion for the students when performing daily assignments and the process and practical services during the clinic laboratory on clients. Many of the practical instructional methods utilized by the multiple adjuncts (each having their own/different way of doing the same practical service) are contradictive, incongruent, inconsistent, and jeopardize the established standard Solano College methodologies the students have learned and are required to perform.
 - One class taught by multiple instructors, using multiple teaching methods, especially for the state board performance criteria, encourages a less than positive learning environment for the students. This weakens the educational foundation established in COSM 100: *Cosmetology I*. Apparently, this instructional environment is setting the students up to fail.

- Due to additional budget cuts and lack of educational consistency, the full time COSM 100 night instructor was reassigned to teach the advanced (COSM 101) clinical laboratory. This assignment prevented enrollment opportunities of 25 new COSM 100 students, and prevented the optimal usage of the clinical laboratory, greatly affecting the WSCH/FTES. Additional factors affected are the percent of fill rate, percent of retention, apportionment income, Bookstore revenues and other campus financial gains.
- Fill the full-time, cosmetology lab technician classified position. The position has been vacant since fall 2008. As a result, a part-time (hourly) classified staff has been hired, creating pedagogical hardships and difficulties for the evening full-time faculty, students, and the program. Some of the hardships that have made instruction extremely difficult for the evening program include, but are not limited to:
 - ♦ Assisting with the supervision of students' clinical operations
 - Assisting with maintaining safety and state requirements for operations performed on clients, using hazardous materials such as chemical strengtheners, cold waves, bleach, facialing chemicals and hair color
 - ♦ Assisting with safety measures for practical operations using thermal hot irons, stoves, marcel irons, flat irons, etc.
 - ♦ Assisting with the operation of the front desk, reception procedures
 - ♦ Retrieving and applying phone messages from students and clients
 - ♦ Assisting with the booking of clients and maintaining client records
 - ♦ Assisting with set-up of equipment demonstration classes
 - ♦ Assisting with the maintenance of Department equipment
 - ♦ Working with inventory/replenishment of supplies
 - ♦ Completing duplicating requests for the cosmetology department.
 - \diamond The grading of tests
 - ♦ Mailing out information packets to potential students
 - ♦ Coverage for faculty breaks and dinner

Program Review 2007 COSMETOLOGY	-06			Cal	eer Technica	
						Division 1
TOPs: 3007.00		03-04	04-05	05-06	06-07	07-08
FTES	Summer	0.00	0.00	8.29	14.78	12.2
GENERATED	Fall	78.71	73.53	108.92	95.80	102.6
	Spring	91.13	79.92	130.07	97.12	114.9
	TOTAL	169.84	153.45	247.28	207.70	229.8
Growth/Decline [(Yr2-Yr1)/	Yr1]	4%	-10%	61%	-16%	11%
	Summor			2488	770	L A.
LOAD	Summer Growth/Declii	-100%	N/A	N/A	-69%	-17%
(WSCH/FTE)	Fall	1181	1103	1089	958	77
(VI3CH/FTE)	Spring	1367	1103	976	958	86
AVERACE	, Fall & Spring	1274	1151	1033	965	816
Growth/Decline /(Yr2-Yr1)/		21%	-10%	-10%	-7%	-15%
		2170	-1070	-1070	-770	-1370
	Summer	0	0	32	47	45
ENROLLMENT	Fall	69	67	94	83	88
	Spring	81	72	107	84	94
	TOTAL	150	139	233	214	22
Growth/Decline [(Yr2-Yr1)/	Ŷr1]	-14%	-7%	68%	-8%	6%
	Summer	0	0	1	2	
NUMBER OF	Fall	5	5	5	12	0
SECTIONS	Spring	5	5	6	5	8
	TOTAL	10	10	12	19	10
Growth/Decline [(Yr2-Yr1)/	YFIJ	11%	0%	20%	58%	-16%
	Summer	0.000	0.000	0.100	0.570	0.570
FTEF	Fall	2.000	2.000	3.000	3.000	4.000
1 121	Spring	2.000	2.000	4.000	3.000	4.000
	Spring	2.000	2.000	4.000	5.000	4.000
PERCENT	Summer	N/A	N/A	107%	97%	90%
FILL	Fall	138%	122%	118%	98%	84%
(1st cen/max enroll)	Spring	162%	144%	102%	105%	90%
	E, Fall & Spring	150%	133%	110%	102%	87%
PERCENT	Summer			97%	94%	80%
RETENTION	Fall	94%	99%	94%	94%	92%
(EOS/1st cen)	Spring	86%	92%	81%	88%	84%
AVERAGI	E, Fall & Spring	90%	96%	88%	91%	88%
APPORTIONMENT						
INCOME		\$593,591	\$534,620	\$1,044,016	\$907,026	\$1,003,75
(FTES * Annual Factor)		¢070,071	¢001,020	\$1,011,010	\$767,620	\$1,000,700
		4000	4000			
EXPENSE	Salaries	\$383,083	\$322,233	\$543,551	\$510,746	
	Materials	\$2,103	\$934	\$19,690	\$26,797	
	Capital Outlay	\$0	\$0	\$0	\$15,061	
L	Total Direct	\$385,186	\$323,167	\$563,241	\$552,604	
Indire	ct (Direct * .40)	\$154,074 \$539,260	\$129,267	\$225,296	\$221,042 \$772,646	<u>۴</u>
ANNUAL	TOTAL	\$539,260	\$452,434	\$788,537	\$773,646	\$(
COST/FTES		\$3,175	\$2,948	\$3,189	\$3,725	\$(
Growth/Decline [(Yr2-Yr1)/	Yr1]	25%	-7%	8%	17%	-100%
Prior to AY98-99 expense do						
8/29/2008						

		White,	African-			Other,	
<u>Summer</u>	-	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A	6	0	0	0	1	7
	В	12	1	2	1	1	17
	С	4	1	2	0		7
	D	1	1	0	0		2 2
	F	1	0	1	0		
	CR NC	0	0	0	0		0 0
	W	0	0 0	0	0 0		0
тот		26	3	5	1	2	37
% Successful *	/_ //	85%	67%	80%	100%	100%	84%
		White,	African-			Other,	
<u>Fall</u>		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	Α	16	2	3	1	1	23
	В	16	4	6	0	3	29
	С	8	3	4	0	3	18
	D	0	2	1	2		5
	F CR	3	0	2	0		5 0
	NC	0	0	0	0 0		0
	W	5	0	0	0		8
ТОТ		48	13	17	3	7	88
% Successful *		83%	69%	76%	33%	100%	80%
		White,	African-			Other,	
<u>Spring</u>		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A	18	2	7	0		27
	В	23	3	3	0	3	32
	С	3	3	2	0	2 2	10 Г
	D F	1 3	2	0	0	2	5 5
	r CR	3 0	0	1 0	0 0		5 0
	NC	0	0	0	0		0
	W	6	0	5	1	1	13
ТОТ		54	11	18	1	8	92
% Successful *		81%	73%	67%	0%	63%	75%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 COSMETOLOGY TOPs: 3007.00

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<u>Summer</u>		<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A B	6 15	1 2		0 0	7 17	
	C	7	2		0	7	
	D	2	0		0	2 2	
	F CR	2 0	0		0	2 0	
	NC	0	0		0	0	
	W	2	0		0	2	
TOT/ % Successful *	AL#	34 82%	3 100%	0%	0 0%	37 84%	0 0%
% SULLESSIUI		0270	100%	U70	U%	0470	U%
<u>Fall</u>		<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	Α	21	2		0	23	
	B C	29 16	0 2		1	28 16	
	D	3	2		0	5	
	F	5	0		0	5	
	CR NC	0	0		0	0	
	W	0	0 0		0	0 8	
TOT		82	6	0	3	85	0
% Successful *		80%	67%	0%	100%	79%	0%
<u>Spring</u>		F	M	U	<u>ESL</u>	Non-ESL	U
Grades *	А	26	1	<u> </u>	1	26	<u>o</u>
	В	31	1		1	31	
	С	10	0		0	10 5	
	D F	4 5	1 0		0	5 5	
	CR	0	0		0	0	
	NC	0	0		0	0	
тоти	W	10 86	3	0	1	12 89	0
% Successful *	∟ #	78%	33%	0%	67%	75%	0%

*Includes duplicate counts.

8/29/2008

Program Name:Criminal JusticeTop Codes:2105.00, 2105.10Prepared by:M. Goodwin

Criminal Justice Department

Part I. Goals/Objectives

1. What are the goals/objectives of the program? (State in terms of student learning outcomes — SLOs.)

Successful completion of this program enables a student to:

- Be able to obtain employment in a criminal justice occupation, i.e., as a Juvenile Hall Counselor, Law Enforcement Officer, or Correctional Officer.
- Develop and apply an understanding of the political, social, structural, and operational aspects of the entire criminal justice system, i.e., law enforcement, courts, and corrections.
- ▶ Be motivated to continue his/her four-year education.
- Acquire various intern positions within the criminal justice and the corrections systems.
- Acquire a knowledge of computer technology as utilized in the criminal justice field.
- Acquire a knowledge of current forensic techniques utilized in law enforcement.

2. List appropriate indicators of program success (i.e., measures of goals/objectives stated above). Include both quantitative and qualitative measures.

Quantitative:

- Grades obtained in criminal justice courses
- Number of students matriculating at a four-year institution
- Employment in a criminal justice agency
- Intern positions acquired
- > The proportion of ethnic-minority and female students in the program
- Number of students acquiring certificates and/or degrees

Qualitative:

- Student evaluations of instructors
- Number of students advanced in job positions
- Number of students placed in non-peace officer, computerized, technical support positions

Number of students placed in traditional, peace officer positions as nonpeace officers

Part II. Analysis

1. Indentify and explain the trends in:

Enrollment — Enrollment in Criminal Justice has increased steadily (4%) from 2003-04 to 2007-08. This increase in enrollment (2,423 to 2,657) could be attributed to the increase of course offerings and the weakening economy. Since the last program review, enrollment increased by 234 students.

Retention — Criminal Justice retention rate experienced a slight increase (86% to 89%) from 2003-04 to 2004-05, but decreased steadily (89% to 83%) from 2004-05 to 2007-08.

Fill rate — Fill rate has experienced a significant overall decrease (94% to 79%) from 2003-04 to 2007-08. This rate could be attributed partially, to the decrease in online courses that instructors are allowed to teach.

Other factors —

- Since the last program review, the law enforcement and corrections careers have experienced a large increase in retirements, which have opened up slots for entry-level positions. The majority of police and corrections agencies nationwide only require a high school education for entry-level positions, thus negating any incentive to acquire an associate or four-year degree.
- In addition, once a student has taken several criminal justice classes, she/he has a good idea of the difficulties associated with the intensive hiring process in California for law enforcement and corrections positions. Students who have not been successful in the process on one or more occasions become disillusioned and change their career focus.
- Another factor that should be considered is the proliferation of television shows concerning police and forensics. There has been an increase in students expressing an interest in forensic fields. However, it appears that a number of students change majors after learning the educational requirements for a position in forensics labs are science-based and that a graduate degree is normally required for an entry-level position.

Qualitative Factors —

This program is a pre-service program that provides the academic background for those who wish to enter an occupation. While the program does not satisfy in-service training needs, completion of this program indicates to perspective employers that the student is committed to the occupation. The program also gives students an in-depth background into the occupational lore and knowledge, which then enhances their ability to receive specialized training with little difficulty. The program continues to graduate students with certificates and/or degrees. Anecdotal evidence points to the fact that graduates of the program are hired in sworn and non-sworn peace officer positions, corrections, and forensics-related positions. It should be noted that from fall 2003 until spring 2008 the program awarded two certificates and two degrees to152 students. In addition, the table below identifies the numbers of students who acquired a certificate and/or a degree during the periods of summer 1997 to spring 1998.

		Total Degrees					
		0	1	2	Total		
	0	0	45	48	93		
Total	1	69	107	7	183		
Certificates	2	104	1	220	325		
Total		153	275	601			

2. How do the above trends relate to the program goals identified during the last review?

The Solano College Criminal Justice program continues to meet its stated goals and objectives. Anecdotal evidence suggests that employment in law enforcement and corrections positions for students has increased. Students continue to transfer to four-year institutions and Solano's program remains committed to gender, racial, ethnic, and cultural diversity.

Part III. Conclusions and Recommendation

1. What are the major accomplishments of the program since the last report?

- Completed all Student Learning Outcomes (SLO's) for all courses.
- Completed the Core 4 competency assessments for all courses.
- Developed new online courses.
- Developed 30-unit certificates in law enforcement and corrections, obtainable completely online.
- Offer more classes at the Vallejo Center.
- Completed an articulation agreement with Jesse Bethel High School for Solano's CJ 001: *Introduction to Criminal Justice* course and attended festivals to market the program.
- Added a course delivery site at Dixon High School.
- Expanded the cadre of agencies that offer internship positions to our students (Concord PD, Solano County District Attorney's Office, et.).
- Updated the courses that are offered by eliminating the perishable skills courses that were noted in previous catalogues, but had not been offered in several years because of California Police Officers Standards & Training (POST) requirements.

2. Based on the trend analysis above, are there any changes needed in order to meet program goals or to improve effectiveness?

In order for the Criminal Justice Program to continue to meet its program goals and maintain effectiveness, the following issues and concerns should be addressed:

- > Increase the number of online classes an instructor can teach.
- Increase the number of agencies that will provide slots for CJ 090: Vocation Work Experience: Law Enforcement, and CJ 091: Vocation Work Experience: Corrections interns.
- Decrease the time-span for advertising, screening, and interviewing of candidates for new adjunct positions.
- Emphasize the hiring of adjunct instructors who have course work that includes adult teaching methodologies and the use of emerging technology and instructional systems design (ISD). California Police Officers Standards & Training (POST) offers this type of course in an advanced officer format.
- Expand course offerings at the Vallejo Center and provide adequate classroom space for additional courses at the future Vacaville Center.
- Emphasis on developing new online and face-to-face courses in law enforcement and corrections (i.e., terrorism, multi-cultural policing, and victimology).
- > Develop additional articulation agreements with local high schools.
- Development of a matriculation schedule that would enable students to plan a fixed, two-year schedule of courses (including summer school), resulting in an AS degree.
- Assess the need for the creation of a formal "mentoring" program involving students, local law enforcement, and corrections personnel.
- > Research the benefits, if any, of hiring another full-time instructor.

Program Review 2007-08 CRIMINAL JUSTICE TOPs: 2105.00+2105.10

(WSCH/FTE)	Summer Growth/Decline Fall Spring (RAGE, Fall & Spring Yr1) Summer Fall Spring TOTAL Yr1) Summer Fall Spring TOTAL	19.43 113.68 113.53 246.64 -4% 729 -34% 632 647 640 6% 199 1101 1123 2423 5% 5 29 28 62 29 28 62 62 63 647 640 632 647 640 640 640 640 640 640 640 640	$ \begin{array}{r} 16.10\\ 113.88\\ 119.04\\ 249.02\\ 1\%\\ \hline 604\\ -17\%\\ \hline 649\\ 602\\ \hline 626\\ -2\%\\ \hline 164\\ 1126\\ 1166\\ 2456\\ 1\%\\ \hline 5\\ 30\\ \hline \end{array} $	25.73 109.49 119.21 254.43 2% 643 6% 547 542 545 -13% 259 1091 1181 2531 3% 7	22.39 114.66 117.81 254.86 0% 672 5% 570 5% 224 1142 1177 2543 0% 7	25.5 117.4 123.2 266.1 4% 54 -19% 58 574 1% 25 116 123 265 4%
GENERATED Srowth/Decline [(Yr2-Yr1)/ LOAD (WSCH/FTE) AVE Srowth/Decline [(Yr2-Yr1)/ ENROLLMENT Srowth/Decline [(Yr2-Yr1)/ NUMBER OF SECTIONS	Fall Spring TOTAL Yr1] Summer Srowth/Decline Fall Spring Yr1] Summer Fall Spring TOTAL Yr1] Summer Fall Spring TOTAL	113.68 113.53 246.64 -4% 729 -34% 632 647 640 6% 199 1101 1123 2423 5% 5 29 28	113.88 119.04 249.02 1% 604 -17% 649 602 626 -2% 164 1126 1166 2456 1% 5	109.49 119.21 254.43 2% 643 6% 547 542 545 -13% 259 1091 1181 2531 3% 7	114.66 117.81 254.86 0% 672 5% 593 546 570 5% 224 1142 1177 2543 0%	117.4 123.2 266.1 4% 54 -19% 58 56 574 1% 25 116 123 265 4%
rowth/Decline ((Yr2-Yr1)/) LOAD (WSCH/FTE) AVE rowth/Decline ((Yr2-Yr1)/) ENROLLMENT rowth/Decline ((Yr2-Yr1)/) NUMBER OF SECTIONS	Spring TOTAL Yr1] Summer Growth/Decline Fall Spring (RAGE, Fall & Spring Yr1] Summer Fall Spring TOTAL Yr1] Summer Fall Spring TOTAL	113.53 246.64 -4% 729 -34% 632 647 640 6% 199 1101 1123 2423 5% 29 28	119.04 249.02 1% 604 -17% 649 602 626 -2% 164 1126 1166 2456 1% 5	119.21 254.43 2% 643 6% 547 542 545 -13% 259 1091 1181 2531 3% 7	117.81 254.86 0% 672 5% 593 546 570 5% 224 1142 1177 2543 0%	123.2 266.1 4% 54 -19% 58 56 574 1% 25 116 123 265 4%
LOAD (WSCH/FTE) AVE rowth/Decline ((Yr2-Yr1)/) ENROLLMENT rowth/Decline ((Yr2-Yr1)/) NUMBER OF SECTIONS	TOTAL Yr1] Summer Growth/Decline Fall Spring FRAGE, Fall & Spring Yr1] Summer Fall Spring TOTAL Yr1] Summer Fall Spring TOTAL	-4% 729 -34% 632 647 640 6% 199 1101 1123 2423 5% 5 5 29 28	249.02 1% 604 -17% 649 602 626 -2% 164 1126 1166 2456 1% 5	2% 643 6% 547 542 545 -13% 259 1091 1181 2531 3% 7	0% 672 5% 593 546 570 5% 224 1142 1177 2543 0%	266.1 4% 54 -19% 56 574 1% 25 116 123 265 4%
LOAD (WSCH/FTE) AVE irowth/Decline ((Yr2-Yr1)/) ENROLLMENT irowth/Decline ((Yr2-Yr1)/) NUMBER OF SECTIONS	Yr1] Summer Growth/Decline Fall Spring GRAGE, Fall & Spring Yr1] Summer Fall Spring Yr1] Summer Fall Spring TOTAL Yr1] Summer Fall Spring TOTAL Spring TOTAL	-4% 729 -34% 632 647 640 6% 199 1101 1123 2423 5% 5 5 29 28	1% 604 -17% 649 602 626 -2% 164 1126 1166 2456 1% 5	2% 643 6% 547 542 545 -13% 259 1091 1181 2531 3% 7	0% 672 5% 593 546 570 5% 224 1142 1177 2543 0%	4% 54 -19% 58 56 574 1% 25 116 123 265 4%
(WSCH/FTE) <u>AVE</u> rowth/Decline ((Yr2-Yr1)/) ENROLLMENT rowth/Decline ((Yr2-Yr1)/) NUMBER OF SECTIONS	Srowth/Decline Fall Spring (TAGE, Fall & Spring (Yr1) Summer Fall Spring (Yr1) Summer Fall Spring TOTAL	-34% 632 647 640 6% 199 1101 1123 2423 5% 5 5 29 28	-17% 649 602 626 -2% 164 1126 1166 2456 1% 5	6% 547 542 545 -13% 259 1091 1181 2531 3% 7	5% 593 546 570 5% 224 1142 1177 2543 0%	-19% 58 56 574 1% 25 116 123 265 4%
(WSCH/FTE) AVE irowth/Decline ((Yr2-Yr1)/) ENROLLMENT irowth/Decline ((Yr2-Yr1)/) NUMBER OF SECTIONS	Srowth/Decline Fall Spring (TAGE, Fall & Spring (Yr1) Summer Fall Spring (Yr1) Summer Fall Spring TOTAL	-34% 632 647 640 6% 199 1101 1123 2423 5% 5 5 29 28	-17% 649 602 626 -2% 164 1126 1166 2456 1% 5	6% 547 542 545 -13% 259 1091 1181 2531 3% 7	5% 593 546 570 5% 224 1142 1177 2543 0%	-19% 58 56 574 1% 25 116 123 265 4%
AVE rowth/Decline ((Yr2-Yr1)/ ENROLLMENT rowth/Decline ((Yr2-Yr1)/ NUMBER OF SECTIONS	Spring FRAGE, Fall & Spring Yr1] Summer Fall Spring TOTAL Yr1] Summer Fall Spring TOTAL	647 640 6% 199 1101 1123 2423 5% 5 5 29 28	602 626 -2% 164 1126 1166 2456 1% 5	542 545 -13% 259 1091 1181 2531 3% 7	546 570 5% 224 1142 1177 2543 0%	56 574 1% 25 116 123 265 4%
Frowth/Decline ((Yr2-Yr1)/) ENROLLMENT Frowth/Decline ((Yr2-Yr1)/) NUMBER OF SECTIONS	ERAGE, Fall & Spring Yr1] Summer Fall Spring TOTAL Yr1] Summer Fall Spring TOTAL	640 6% 199 1101 1123 2423 5% 5 5 29 28	626 -2% 164 1126 1166 2456 1% 5	545 -13% 259 1091 1181 2531 3% 7	570 5% 224 1142 1177 2543 0%	574 1% 25 116 123 265 4%
Frowth/Decline ((Yr2-Yr1)/) ENROLLMENT Frowth/Decline ((Yr2-Yr1)/) NUMBER OF SECTIONS	Yr1] Summer Fall Spring TOTAL Yr1] Summer Fall Spring TOTAL	6% 199 1101 1123 2423 5% 5 29 28	-2% 164 1126 1166 2456 1% 5	-13% 259 1091 1181 2531 3% 7	5% 224 1142 1177 2543 0%	1% 25 116 123 265
ENROLLMENT Frowth/Decline ((Yr2-Yr1)/) NUMBER OF SECTIONS	Summer Fall Spring <i>TOTAL</i> Yr1) Summer Fall Spring <i>TOTAL</i>	199 1101 1123 2423 5% 5 5 29 28	164 1126 1166 2456 1% 5	259 1091 1181 2531 3% 7	224 1142 1177 2543 0%	25 116 123 265
irowth/Decline /(Yr2-Yr1)/ NUMBER OF SECTIONS	Fall Spring <u>TOTAL</u> Yr1] Summer Fall Spring TOTAL	1101 1123 2423 5% 5 5 29 28	1126 1166 2456 1% 5	1091 1181 2531 3% 7	1142 1177 2543 0%	116 123 265
Growth/Decline [(Yr2-Yr1)/ NUMBER OF SECTIONS	Spring TOTAL Yr1] Summer Fall Spring TOTAL	1123 2423 5% 5 29 28	1166 2456 1% 5	1181 2531 3% 7	1177 2543 0%	123 265
NUMBER OF SECTIONS	<u>TOTAL</u> Yr1] Summer Fall Spring TOTAL	2423 5% 5 29 28	2456 1% 5	2531 3% 7	2543 0%	123 265
NUMBER OF SECTIONS	<u>TOTAL</u> Yr1] Summer Fall Spring TOTAL	2423 5% 5 29 28	2456 1% 5	2531 3% 7	2543 0%	265
NUMBER OF SECTIONS	Yr1] Summer Fall Spring TOTAL	5 29 28	5	7		
SECTIONS	Fall Spring <i>TOTAL</i>	29 28		7	7	
SECTIONS	Fall Spring <i>TOTAL</i>	29 28		/	/	
SECTIONS	Spring <i>TOTAL</i>	28	.30	24	20	
	TOTAL		33	34	38	
Growth/Decline [(Yr2-Yr1)/	Yr11		68	38 79	35 80	-
		62 0%	10%	16%	1%	-8%
	-					
	Summer	0.800	0.800	1.200	1.000	1.40
FTEF	Fall	5.400	5.267	6.000	5.800	6.06
	Spring	5.267	5.933	6.600	6.467	6.53
PERCENT	Summer	100%	86%	93%	107%	74
FILL	Fall	89%	90%	79%	83%	79
(1st cen/max enroll)	Spring	99%	92%	78%	81%	78
	ERAGE, Fall & Spring	94%	91%	79%	82%	79%
DEDGENT	Summer	010/	00%	0.20/	0.00/	0.2
PERCENT RETENTION	Summer Fall	81% 85%	90% 90%	82% 88%	89% 84%	<u>82</u> 86
(EOS/1st cen)	Spring	86%	88%	82%	87%	80
	ERAGE, Fall & Spring	86%	89%	85%	86%	83%
APPORTIONMENT						
INCOME		\$862,007	\$867,586	\$1,074,203	\$1,112,974	\$1,162,36
(FTES * Annual Factor)						
EXPENSE	Salaries	\$284,551	\$304,953	\$381,506	\$312,251	
	Materials	\$2,989	\$2,375	\$3,344	\$3,768	
	Capital Outlay	\$21,068	-\$436	\$0	\$0	
	Total Direct	\$308,608	\$306,892	\$384,850	\$316,019	
	Indirect (Direct *.40)	\$123,443	\$122,757	\$153,940	\$126,408	
	TOTAL	\$432,051	\$429,649	\$538,790	\$442,427	
ANNUAL COST/FTES		¢1 750	\$1,725	¢7 110	\$1,736	ç
		\$1,752 -2%	-2%	\$2,118 23%	\$1,736 -18%	-100%

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008

Program Review 2007-08 CRIMINAL JUSTICE TOPs: 2105.00+2105.10

Career Technical Education Division 11 Year: 2007-08

		White,	African-			Other,	
<u>Summer</u>		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A	48	27	20	7	18	120
	В	10	11	8	4	6	39
	С	5	2	1	4	5	17
	D	5	0	1	0	2	8
	F	3	3	1	1	1	9
	CR	5	4	6	0	2	17
	NC	1	0	0	0	1	2
то	W	10	18	4	0	6	38
% Successful *)TAL #	87 78%	65 68%	41 85%	16 94%	41 76%	250 77%
% Successiui				85%	94%		11%
		White,	African-			Other,	
Fall		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	А	168	92	82	21	34	397
	В	79	65	58	8	18	228
	С	38	45	25	3	7	118
	D	16	15	14	2	6	53
	F	45	51	39	7	22	164
	CR	8	5	6	0	1	20
	NC	0	1	0	0	1	2
	W	40	32	20	7	21	120
)TAL #	394	306	244	48	110	1102
% Successful *		74%	68%	70%	67%	55%	69%
		White,	African-			Other,	
<u>Spring</u>		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A	188	95	74	18	48	423
	В	82	64	43	12	26	227
	С	39	36	32	7	7	121
	D	19	16	13	5	3	56
	F	37	43	29	8	10	127
	CR	8	9	2	0	2	21
	NC W	2 52	 	2	0	01	5
тс	vv # TAL	53 428	77 341	43 238	9 59	21 117	203 1183
% Successful *	IAL #	428 74%	60%	63%	59 63%	71%	67%
70 JULLESSIU		/ 4 /0	0070	0370	0370	/ 1 /0	0770

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 CRIMINAL JUSTICE TOPs: 2105.00+2105.10

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Summer		F	М	U	ESL	Non-ESL	U
Grades *	А	. 77	43	<u> </u>	5	115	<u> </u>
	В	24	15		0	39	
	С	8	9		0	17	
	D	3	5		1	7	
	F	4	5		0	9	
	CR NC	11 0	6 2		2	15 2	
	W	25	13		1	37	
TC)TAL #	152	98	0	9	241	0
% Successful *		79%	74%	0%	78%	77%	0%
<u>Fall</u>		F	Μ	<u>U</u>	<u>ESL</u>	Non-ESL	U
Grades *	А	219	178		7	390	
	В	106	122		9	219	
	С	56	62		6	112	
	D	26	27		2	51	
	F CR	90 16	74 4		5 3	159 17	
	NC	16 2	4 0		3 0	2	
	W	67	53		4	116	
тс)TAL #	582	520	0	36	1066	0
% Successful *		68%	70%	0%	69%	69%	0%
<u>Spring</u>	_	<u>F</u>	Μ	<u>U</u>	<u>ESL</u>	<u>Non-ESL</u>	<u>U</u>
Grades *	А	234	189		14	409	
	В	127	100		6	221	
	С	61	60		6	115	
	D F	29 70	27 57		2	54 120	
	г CR	70 19	57		1	20	
	NC	3	2		1	4	
	W	118	85		10	193	
)TAL #	661	522	0	47	1136	0
% Successful *		67%	67%	0%	57%	67%	0%

*Includes duplicate counts.

8/29/2008

Program Name:Drafting TechnicianTOP Code:0953.00Prepared by:Robert JohnsonFaculty:Karen Cook

Drafting Department

Part I. Goals/Objectives

1. What are the goals/objectives of the program? (State in terms of student learning outcomes — SLOs.)

- To prepare students for job placement in the drafting, engineering and architectural industries of Solano County and the greater Bay Area.
- To offer opportunities to current drafting/engineering professionals to update and advance job skills.
- To prepare students for further education in the engineering and architectural fields.

Successful completion of this program enables a student to:

- Demonstrate the ability to use computer-aided design and drafting applications to produce industry-quality civil, mechanical, electrical, and architectural drawings.
- Demonstrate the ability to communicate electronically, work from written and verbal instructions, and to meet deadlines.
- Demonstrate knowledge of drafting and engineering terminology and standards.
- > Demonstrate the ability to read and listen effectively.
- Demonstrate the ability to communicate effectively for career purposes through writing, speech, and visual means, for career purposes.

2. List appropriate indicators of program success (i.e., measures of goals/objectives stated above). Include both quantitative and qualitative measures.

Quantitative:

- Increased enrollment and student retention
- Successful completion of major classes
- Maintain or increase student enrollment
- Maintain Department web presence
- Student evaluation of the program

Qualitative:

- Successful passing scores in major classes
- > Student success in acquiring jobs in the drafting field
- Biennial Instructional Program Review and Analysis
- > Employer satisfaction with recent graduate drafters

Part II. Analysis

1. Identify and explain the trends in:

Enrollment — Enrollment has increased every year since 2004-05, from 254 FTES, to 321 in 2007-08.

Retention — Retention was steady at the 80% range, from 2004-07, and declined to 75% in 2007-08.

Fill Rate — Fill rate was steady at the 80% range from 2004-07, and declined to 64% in 2007-08.

Other Factors — Apportionment income increased from \$172,772 in 2004-05, to \$230,185 in 2007-08.

Qualitative Factors —

The upward trends are due to upgraded software, new drafting laboratory classrooms, new instructors, and the addition of online classes. Upper level classes are now predominantly offered at night or online. This has enabled a wider range of individuals, including those working day jobs, to enroll and participate in the program. Drafting software is current and up-to-date to meet industry standards. This has increased class demand.

- New instructors with more recent industry experience keep the program on the cutting edge of current trends and standards, thus making students more employable after graduation and increasing the popularity and program demand.
- Online classes are popular with working professionals, with individuals who have transportation problems, and with those needing a more flexible schedule. For this reason, students who would not normally enroll are taking drafting classes.
- More students from other disciplines (Interior Design, Welding, etc.) are enrolling in drafting classes to diversify skills.

2. How do the above trends relate to the program goals identified during the last review?

Trends suggest that goals are being met and surpassed. As long as adequate funding continues, there is no reason why the program will not continue on a positive course.

- Increased employer demand for drafting students indicate the program is meeting employer needs. Current economic conditions may produce a short downturn in graduate demand, but based on employer surveys, the expectations are that the increased demand will continue, in the long term, with the addition of the Survey Drafting Certificate Program.
- Increased enrollment indicates the drafting program is meeting the needs of the community and the students. Continued outreach from "2+2" Tech Prep keeps program awareness high in secondary schools.
- New, state-of-the-art software increases demand among working drafting professionals who need to upgrade skills. Specific classes not related to certificates and the A.S. program are popular with professionals in jobs that do not specialize in drafting, but have elements of drafting on the fringes of the job description, such as managers needing to make small changes on CAD drawings.
- In the short term, the state budget shortfalls may impact the number of sections offered. If the budget problems are not a major factor, the program should see increased enrollment with the new surveying program and because of individuals seeking job retraining due to the economic downturn.

Part III. Conclusions and Recommendations

1. What are the major accomplishments of the program since the last report?

- New full-time instructor/program coordinator
- Job placement
- Drafting degrees and certificates
- ➤ Continuation of "2+2" with high schools in Solano County
- Major program upgrades, including Computer Aided Drafting in all upper-level classes
- Successful and comprehensive curriculum review
- Now software such as AutoCAD 2009 and Solidworks 2008
- Successful addition of online learning in four drafting classes:
 - ◊ DRFT 045: Introduction to Computer Aided Drafting
 - ◊ DRFT 046: Advanced Computer Aided Drafting
 - ♦ DRFT 079: Blueprint Reading
 - ◊ DRFT 175: Solid modeling with Solidworks
- New program development Civil Drafting and Surveying Certificate (pending state approval). Developed partnership with the Solano County surveyor as a new program advisor

- Development of student learning outcomes (SLO's)
- Participated in local festival to promote Solano College and the Drafting Program
- Student achievement highlights
- Student, Cynthia Jourgensen, won Best of Show in the 2008 California State Fair for her solid modeling project
- Former student, Shawn Carney, is now a civil drafting instructor, after gaining experience as a computer aided drafting manager at Foulk Gomez and Associates, civil engineering firm

2. Based on the trend analysis above, are there any changes needed in order to meet program goals or to improve program effectiveness? Explain.

- Survey Drafting Program is expected to increase enrollment and course offerings.
- Continued recruitment of adjunct faculty with current industry experience, will enable the continuation and growth of course offerings.
- Recruitment at area high schools will increase awareness of the program. Increased participation in "2+2" outreach program.
- Continued interaction with other campus departments in sharing resources to further increase enrollments.
- Promotion of current and new drafting programs and courses.
- Continued outreach to working professionals needing to upgrade their drafting skills and software comprehension.

Program Review 2007-08 DRAFTING TECHNOLOGY TOPs: 0953.00

Career Technical Education Division 11

TOPS: 0953.00		03-04	04-05	05-06	06-07	07-08
FTES	Summer	0.00	0.00	0.00	1.20	0.00
GENERATED	Fall	26.87	24.87	21.65	21.94	24.28
02.12.10.1.20	Spring	23.07	24.72	27.79	22.43	28.43
	TOTAL	49.94	49.59	49.44	45.57	52.71
Growth/Decline [(Yr2	-Yr1)/Yr1]	-7%	-1%	0%	-8%	16%
	Comment	0	0	0	101	0
LOAD	Summer Growth/Declin	0 N/A	0 N/A	0 N/A	101 N/A	0 -100%
(WSCH/FTE)	Fall	312	N/A 25	N/A 274	278	235
(VISCH/FTE)	Spring	293	298	274	278	300
AVERAGE		303	161	273	249	268
AVERAGE, Fall & Spring Growth/Decline [(Yr2-Yr1)/Yr1]		-8%	-47%	69%	-9%	8%
	, -					
	Summer	0	0	0	12	0
ENROLLMENT	Fall	138	129	116	124	156
	Spring	114	125	178	160	165
	TOTAL	252	254	294	296	321
Growth/Decline ((Yr2-Yr1)/Yr1)		-7%	1%	16%	1%	8%
	Cump magn	0	0	0	2	
NUMBER OF	Summer Fall	0 11	0 12	0 14	2 12	0 11
SECTIONS	Spring	10	12	14	12	11
SECTIONS	TOTAL	21	22	27	28	23
Growth/Decline [(Yr2-Yr1)/Yr1]		-5%	5%	23%	4%	-18%
	Summer	0.000	0.000	0.000	0.356	0.000
FTEF	Fall	2.584	2.722	2.367	2.367	3.100
	Spring	2.364	2.489	3.078	3.078	2.844
DEDOENT		201		201	(
PERCENT	Summer	0%	0%	0%	60%	0%
FILL	Fall	86%	81%	83%	86%	67%
(1st cen/max enroll)	Spring E, Fall & Spring	81% 84%	89% 85%	89% 86%	75% 81%	<u>61%</u> 64%
	L, Tall & Spring	04 /0	0376	00%	0170	0470
PERCENT	Summer	0%	0%	0%	83%	0%
RETENTION	Fall	81%	83%	83%	86%	76%
(EOS/1st cen)	Spring	89%	85%	76%	84%	74%
AVERAG	E, Fall & Spring	85%	84%	80%	85%	75%
APPORTIONMENT		* 474 540	¢470 770	*•••••••••••••	\$100 00 I	\$000 405
INCOME	`	\$174,540	\$172,772	\$208,736	\$199,004	\$230,185
(FTES * Annual Factor,)					
EXPENSE						
	Salaries	\$148,619	\$156,635	\$139,263	\$126,669	
	Materials	\$6,382	\$2,763	\$4,839	\$49,233	
	Capital Outlay	\$0	\$42,776	\$23,147	\$2,962	
Total Direct Indirect (<i>Direct</i> *.40)		\$155,001	\$202,174	\$167,248	\$178,864	\$0
		\$62,000	\$80,870	\$66,899	\$71,545	\$0
ANNUAL	TOTAL	\$217,001	\$283,044	\$234,148	\$250,409	\$0
ANNUAL COST/FTES		\$4,345	\$5,708	\$4,736	\$5,495	\$0
Growth/Decline /(Yr2	-Yr1)/Yr11	2%	\$5,708 31%	-17%	\$5,495 16%	ە 0-100%
		210	J170	-1770	1070	-10070

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008 Solano: Research and Planning

Program Review 2007-08 DRAFTING TECHNOLOGY TOPs: 0953.00

Career Technical Education Division 11 Year: 2007-08

	White,	African-			Other,	
<u>Summer</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades * A	0	0	0	0		0
В	0	0	0	0		0
C	0	0	0	0		0
D	0	0	0	0		0
F	0	0	0	0		0
CR	0	0	0	0		0
NC W	0 0	0 0	0 0	0 0		0 0
TOTAL #	0	0	0	0	0	0
% Successful *	0%	0%	0%	0%	0%	0%
	White,African-Other,					
<u>Fall</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades * A	29	1	10	9	10	59
В	10	2	5	1	1	19
С	5	4	3	2	1	15
D	4	2	0	0	2	8
F	/	0	6	3 0	4	20
CR NC	0 0	0	0	0		0 0
W	0 10	0	3	0	3	21
TOTAL #	65	13	27	16	21	142
% Successful *	68%	54%	67%	75%	57%	65%
	White,	African-			Other,	
<u>Spring</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades * A	22	2	13	12	12	61
В	12	4	12	5	5	38
С	5	4	2	0		11
D	4	2	0	0		6 5
F CR	4 0	0 0	0 0			5
NC	0	0	0	0 0		0 0
W	21	1	2	2	2	28
TOTAL #	68	13	29	20	19	149
% Successful *	57%	77%	93%	85%	89%	74%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 DRAFTING TECHNOLOGY TOPs: 0953.00

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Summor		г	N A		FCI	Non ESI	
Summer	، ۲	<u> </u>	<u>M</u>	<u>U</u>	ESL	Non-ESL	<u>U</u>
Grades *	A B	0 0	0 0		0	0	
	ь С	0	0		0	0 0	
	D	0	0		0	0	
	F	0	0		0	0	
	ĊR	0	0		0	0	
	NC	0	0		0	0	
	W	0	0		0	0	
TOT	AL #	0	0	(0	0
% Successful *		0%	0%	0%	0%	0%	0%
<u>Fall</u>		<u>F</u>	M	<u>U</u>	ESL	Non-ESL	<u>U</u>
Grades *	Α	15	44		6	53	
	В	3	16		2	17	
	С	0	15		1	14	
	D	3	5		0	8	
	F	2	18		1	19	
	CR	0	0		0	0	
	NC W	0	0 18		0	0 19	
TOT		26	116	() 12	130	0
% Successful *		88%	75%	0%	75%	65%	0%
						I	
<u>Spring</u>		<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	А	15	46		8	53	
	В	8	30		4	34	
	С	0	11		0	11	
	D	0	6		0	6	
	F	0	5		0	5	
	CR NC	0	0 0		0	0	
	W	0 7	21		0	0 28	
TOT		30	119	(137	0
% Successful *	· \∟ //	77%	73%	0%	100%	72%	0%
*Includes dunlicate counts			** See prior fo			. 1.0	270

*Includes duplicate counts.

** See prior footnote.

8/29/2008

Program Name:ElectronicsTOP Code:0934.00Program Name:Industrial EducationTOP Code:0956.00Prepared by:Mark Berrett

Electronics and Industrial Technology Departments

Part I. Goals/Objectives

1. What are the goals/objectives of the program? (State in terms of student learning outcomes — SLOs.)

Electronics Technology:

- To prepare students for entry-level and continued employment in the electronics technology field.
- To provide an extensive background in electronics theory with laboratory application.
- To provide transferable courses to students wishing to attend UC or CSU campuses.

Digital Home Technology Integration

- To prepare students for entry-level and continued employment in the digital home technology integration field.
- To provide an extensive background in the design, installation, and servicing of various home-based technologies.
- > To prepare the student for independent industry certification.

Mechatronics

- To prepare students for entry-level and continued employment in the advanced manufacturing career field.
- To prepare students for entry-level and continued employment in the building and equipment maintenance fields.
- To provide an extensive background in the design, installation, and servicing of various manufacturing, building, and maintenance technologies.

Computer Investigations

- To prepare students for entry-level and continued employment in the computer investigations field.
- To provide topical instruction on computer investigations to students currently employed in related fields.

Computer Information Security

- To prepare students for entry-level and continued employment in the computer information security field.
- To provide topical instruction on computer information security to students, currently employed in related fields.

Electronic Security and Surveillance Technician

- To prepare students for entry-level and continued employment in the electronic security and surveillance field.
- To provide topical instruction on electronic security and surveillance to students, currently employed in related fields.

Home Technology Integrator

- To prepare students for entry-level and continued employment in the home technology integrator field.
- To provide topical instruction on home technology to students, currently employed in related fields.
- ➤ To prepare the student for independent industry certification.

2. What are appropriate indicators of program success (i.e., both qualitative and quantitative measures of goals/objectives stated above)?

Electronics Technology

Quantitative:

- ➢ Core program enrollment.
- ➢ Retention rates.
- \succ Fill rates.
- Transition of courses to new programs.

Qualitative:

- > Advisory committee endorsed of program changes.
- Changes in employment opportunities.

Digital Home Technology Integration

Quantitative:

- Program enrollment.
- > Number of students completing program.
- Chancellor's Office approval.

Qualitative:

Curriculum development.

- Feedback from advisory group.
- Student recruitment.

Mechatronics

Quantitative:

Program enrollment.

Computer Investigations

Quantitative:

- Program enrollment.
- Chancellor's Office approval.

Qualitative:

> Feedback from the advisory group and students.

Computer Information Security

Quantitative:

- Program enrollment.
- Chancellor's Office approval.

Qualitative:

➢ Feedback from the advisory group.

Electronic Security and Surveillance Technician

Quantitative:

Program enrollment.

- Qualitative:
 - Advisory group recommendations.

Home Technology Integrator

Quantitative:

- Program enrollment.
- Course scheduling, fill rates, and retention.
- Chancellor's Office approval.

Qualitative:

Advisory group feedback.

Part II. Analysis

1. Identify and explain the trends in:

Electronics Technology

Enrollment — Enrollment in courses listed under electronic technology has declined from 42.71 FTES in the 2003-04 academic year, to 24.22 FTES in the 2007-08 academic year. The core Electronics Technology Certificate and Associate Degree program is in the process of discontinuance, as other programs are being created to takes its place, and the declining enrollment trend reflects the transition of students.

Retention — Retention of students has averaged above 80% throughout the reporting period.

Fill rate — Fill rates have declined substantially from 80% in the 2003-04 academic year, to below 55% in the 2007-08 academic year, as entry-level courses have been phased out and only the capstone courses are offered to students completing their education goals. Since not all students who start the program complete it, the fill rate in the most advanced course diminishes, as skipping semesters will not increase the number of students ready to take the course.

Other Factors — Not all courses listed under electronics technology are being discontinued. Courses needed for new programs (see below), as well as courses offered for other programs, i.e. Electrical Safety for the Fire Technology program, will remain.

Some of the electronics courses have been moved to other programs and are now listed under industrial technology, maintenance technology, or computer information systems.

Core electronics faculty has declined from a peak of two full-time and four part-time faculty, to one full-time and two part-time faculty. The reduction of faculty, along with contract restrictions in faculty load, have made it difficult to schedule enough entry-level courses in the replacement programs, while still allowing students to complete this program.

Qualitative Factors — The Electronics Advisory Group has specified that the need for certificate and degree qualified electronics technicians and electronics engineering assistants has diminished to the point that new graduates will find it increasingly difficult to find employment. The Group specified that the traditional electronics technician has transitioned into one of several other specialized or more generalized skill sets and students would be better serviced by an education program that caters to some of these fields. As a result, the core electronics technology program is being discontinued and other programs are being created to take its place (see below).

Digital Home Technology Integration

Enrollment — This is one of the new programs replacing the Electronics Technology program. Students in the Digital Home Technology Integration program are enrolled in courses listed under electronics and are indistinguishable using gathered statistics. These students also take at least two industrial technology courses and one computer information systems course.

Other Factors — This program is still in the process of Chancellor's Office approval and there are no completers at the time of this reporting.

Qualitative Factors — An advisory group for Digital Home Technology Integration has been formed and has provided considerable guidance in the creation of this program. It is intended to become a full certificate and degree program. Approval by the Chancellor's Office is pending. All of the courses in the program have been offered at least once, feedback has been collected from students, and the instructional design process is continuing. While a handful of students have taken each of the new courses offered as part of this program, no students have completed the program and no serious student recruiting efforts have been made, as of this report.

Mechatronics

Enrollment — Courses listed under the Mechatronics program are primarily industrial technology courses, but also include some from electronics and computer and information science. The Mechatronics program began offering courses during the 2008-09 academic year, so enrollment data are not yet available.

Computer Investigations

Enrollment — Computer Investigations is a job-direct certificate program that spans two departments in two separate divisions. Enrollment numbers are included in both Electronics Technology and Computer Information Services. Some of the courses are co-listed in both departments, further obfuscating enrollment data.

Other Factors — This program is still in the process of Chancellor's Office approval and there are no completers at the time of this reporting.

Qualitative Factors — An Computer Investigations' Advisory Group has been formed and has provided considerable guidance into the creation of this program. Approval by the Chancellor's Office is pending. All of the courses in the program have been offered at least once, feedback has been collected from students, and the instructional design process is continuing. While a handful of students have taken each of the new courses offered, as part of this program, no students have completed the program, and no serious student recruiting efforts have been made, as of the time of this report.

Computer Information Security

Enrollment — Computer Information Security is a job-direct certificate program that spans two departments in two separate divisions. Enrollment numbers are included in both Electronics Technology and Computer Information Services.

Other Factors — This program is still in the process of Chancellor's Office approval and there are no completers, at the time of this reporting.

Qualitative Factors — An advisory group for Computer Information Security has been formed and has provided considerable guidance into the creation of this program. Approval by the Chancellor's Office is pending. Not all of the courses in the program have been offered and the instructional design process is continuing.

Electronic Security and Surveillance Technician

Enrollment — Electronic Security and Surveillance Technician is a job-direct certificate program with all enrollment data listed under Electronics Technology.

Other Factors — This program never achieved Chancellor's Office approval and is in the process of being discontinued. Not all of the courses in this program have been offered and there is no indication that they ever will. Courses specific to this program will be removed from the catalog of courses as well. An advisory group for Electronic Security and Surveillance Technician was formed and the program was created according to their detailed specifications. However, the committee decided to pull support for the program at Solano Community College and the committee was subsequently dissolved.

Qualitative Factors — The advisory group for the Electronic Security and Surveillance Technician program consisted of prospective employers from seven local Indian casinos. When it became clear that it would take several years for the program to produce job-ready completers, the employer group moved their support to a private university.

Home Technology Integrator

Enrollment — Home Technology Integrator is a job-direct certificate program that spans two departments. Enrollment numbers are included in both Electronics Technology and Industrial Technology. Anecdotal enrollment information is available in that the entire program has been offered five times as a grouped block of courses in individual summer and fall semesters. Each group generated approximately fourteen FTES, with fill rates above 100% and retention above 90%.

Other Factors — This program is still in the process of Chancellor's Office approval.

Qualitative Factors — An advisory group for the Home Technology Integrator program has been formed and has provided considerable guidance into the creation of this program. Approval by the Chancellor's Office is pending.

2. How do the above trends relate to the program goals identified during the last review?

Electronics Technology

With the Electronics Program winding down, the last of the students have completed instruction and are now either employed or seeking employment.

Digital Home Technology

Since there are no students who have completed the Digital Home Technology program, the goal of providing work-ready graduates has not yet been met.

Mechatronics

Since there are no students who have completed the Mechatronics program, the goal of providing work-ready graduates has not yet been met.

Computer Investigations

The Computer Investigations program has not been approved by the Chancellor's Office. However, several students report career advancement due to the instruction that they have received and several students have jobbed out.

Computer Information Security

All of the courses associated with the Computer Information Security program have not yet been offered, so the goal of preparing students for employment has yet to be met.

Electronic Security and Surveillance Technician

The Electronic Security and Surveillance Technician program is being discontinued before it is completely offered, so the goal of preparing student for employment has not and will not be met.

Home Technology Integrator

The Home Technology Integrator program has not been approved by the Chancellor's Office so students completing the program have not received certificates. However, students who complete this program are reporting excellent job prospects and many have returned for further education.

Part III. Conclusions and Recommendations

1. What are the major accomplishments of the program since the last report?

- Completed curriculum development for four new, job-direct certificate programs.
- Created twenty-one new courses. Seventeen of these courses are in anticipation of a new program that will be proposed during the next cycle.
- Revised five existing courses to modernize their presentation and keep up with current technology.
- Classroom facilities underwent extensive renovation as part of a district-wide bond build-out of all facilities. Two classroom/labs were stripped to the frame and completely rebuilt, with adequate electrical and modern communication, as well as new floors, furniture, and roofs that no longer leak. In addition, a classroom has been set aside for use as a computer lab and the former auto shop has been adapted into an electrical shop for industrial technology courses.

- New instructional equipment has been purchased. This equipment includes sixty-four computers used in the various labs, software for instruction, equipment for technology instruction, and equipment for electrical instruction. The majority of the new equipment was purchased through bond monies, some through VTEA and regular instructional budgets, while some were donated by local industries.
- Instructors attended extensive training sessions to support existing programs, as well as learn industry trends, and prepare to develop new curriculum for future programs.
- Student learning outcomes were developed for all existing courses.

2. Based on the trend analysis above, are there any changes needed in order to meet program goals or to improve program effectiveness?

- New programs need to be completed for accreditation and approval at the Chancellor's Office.
- New courses and programs need to be developed to continue the transition from Electronics Technology to instructional fields that are needed by local and statewide industries.
- Funding requirements will need to be met in order to complete the modernization of labs and support ongoing purchases of consumable supplies.
- Adjunct instructors who have left in the last three years need to be replaced in order to allow scheduling of entry-level courses and advanced courses. Without a full roster of instructors, students will not be able to complete programs.

Program Review 2007-08 ELECTRONICS TOPs: 0934.00

101 3. 0754.00		03-04	04-05	05-06	06-07	07-08
FTFO	C	0.70	0.45	7 70	0.55	0.00
FTES GENERATED	Summer	0.79	2.65	7.70	9.55	0.00
GENERATED	Fall Spring	19.13	13.80	18.18	15.75	14.76
	TOTAL	22.79 42.71	21.19 37.64	12.81 38.69	13.62 38.92	9.46 24.22
Growth/Decline [(Yr2-Yr		3%	-12%	3%	1%	-38%
	.,,	370	1270	370	170	3070
	Summer	190	225	315	391	0
LOAD	Growth/Decline	N/A	18%	40%	24%	-100%
(WSCH/FTE)	Fall	237	289	282	232	198
, , ,	Spring	274	271	245	215	174
AVER	AGE, Fall & Spring	256	280	264	224	186
Growth/Decline [(Yr2-Yr	1)/Yr1]	5%	10%	-6%	-15%	-17%
	Summer	13	59	96	116	0
ENROLLMENT	Fall	132	119	124	128	114
	Spring	170	164	88	95	65
	TOTAL	315	342	308	339	179
Growth/Decline [(Yr2-Yr	1)/Yr1]	23%	9%	-10%	10%	-47%
	Summer	1	3	4	4	0
NUMBER OF	Fall	11	13	16	10	10
SECTIONS	Spring	13	17	15	9	/
Growth/Dealing (Wr2 Vr	TOTAL	25	33	35	23	17
Growth/Decline [(Yr2-Yr	1)/111]	39%	32%	6%	-34%	-26%
	Cumanaar	0.105	0.252	0 722	0 722	0.000
FTEF	Summer	0.125 2.426	0.353 1.433	0.733 1.933	0.733 2.033	0.000 2.233
FIEF	Fall Spring	2.420	2.350	1.933	1.900	2.233
	Spring	2.472	2.330	1.507	1.900	1.033
PERCENT	Summer	54%	82%	100%	121%	0%
FILL	Fall	79%	79%	65%	67%	54%
(1st cen/max enroll)	Spring	80%	85%	71%	50%	35%
	RAGE, Fall & Spring	80%	79%	65%	67%	54%
	, ,					
PERCENT	Summer	100%	75%	89%	95%	0%
RETENTION	Fall	77%	76%	89%	83%	79%
(EOS/1st cen)	Spring	81%	80%	80%	68%	91%
AVE	RAGE, Fall & Spring	79%	78%	85%	76%	85%
APPORTIONMENT						
INCOME		\$149,271	\$131,138	\$163,349	\$169,964	\$105,769
(FTES * Annual Factor)						
EVEELOE		#100 70 -	#110 00 -	#10 (07)	¢100 70 1	
EXPENSE	Salaries	\$122,702	\$112,802	\$136,971	\$109,734	
	Materials	\$6,710	\$10,623	\$14,625	\$15,689	
	Capital Outlay Total Direct	\$0	\$46,581	\$17,218	\$29,654	
		\$129,412 \$51,765	\$170,007	\$168,813 \$67,525	\$155,077	
	ndirect <i>(Direct * .40)</i> <i>TOTAL</i>	\$51,765 \$181,177	\$68,003 \$238,010	\$67,525 \$236,339	\$62,031 \$217,107	\$0
ANNUAL	TOTAL	φ101,177	\$Z30,010	\$Z30,339	φ∠17,107	ΦŪ
COST/FTES		\$1 212	\$6,323	\$6,109	\$5,578	\$0
Growth/Decline /(Yr2-Yr	1)/Yr11	\$4,242 -5%	\$0,323 49%	-3%	\$5,578 -9%	۵ 0 -100%
	<i>.,,</i> ,,,,	-5 /0	47/0	-370	- 7 /0	-10070

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008

	White,	African-			Other,	
Summer	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
	A 0	0	0	0		0
	3 0	0	0	0		0
	0	0	0	0		0
	0 0	0	0	0		0
	- 0	0	0	0		0
CI		0	0	0		0
No		0 0	0 0	0 0		0 0
TOTAL		0	0	0	0	0
% Successful *	0%	0%	0%	0%	0%	0%
	White,	African-			Other,	
Fall	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
	A 22	6	5	1	13	47
	3 10	1	4	4	1	20
	C 4	1	4	0	1	10
) 1	0	0	0]	2
CI	- 14 R 0	4 0	2 0	0	I	21 0
N		0	0	0		0
V		2	2	1	2	9
TOTAL		14	17	6	19	109
% Successful *	68%	57%	76%	83%	79%	71%
	White,	African-			Other,	
<u>Spring</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
	A 19	1	3	3	5	31
	3 3	1	1	2	1	8
	2	0	0	0	2	4
	0 0 = 8	1	2	0 1	1	2 14
CI		2 0	2	0	I	0
N		0	0	0		0
V		2	0	0		5
TOTAL		7	7	6	9	64
% Successful *	69%	29%	57%	83%	89%	67%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 ELECTRONICS TOPs: 0934.00

Career Technical Education Division 11 Year: 2007-08

Summer	<u> </u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A 0		0	0	0	0
	В 0		0	0	0	0
	C 0	Ű	0	0	0	0
	D 0 F 0	-	0	0	0 0	0
(CR 0	Ű	0	0	0	0
	IC 0	-	0	0	0	0
	W O	0	0	0	0	0
TOTAL			0	0	0	0
% Successful *	0%	0%	0%	0%	0%	0%
<u>Fall</u>	<u> </u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A 9			4	43	
	В 0			2	18	
	C 0 D 0	_		1	9 2	
	F 4	17		0	2 19	
(0	0	
	IC 0			0	0	
	W 3			1	8	
TOTAL	. # 16		0	10	99	0
% Successful *	56%	73%	0%	70%	71%	0%
<u>Spring</u>	<u> </u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A 7	24		1	30	
	B 2			0	8	
	C 1	3		0	4	
	D 0 F 3	-		0	2 14	
(R 0			0	0	
				0	0	
	W 0			0	5	
TOTAL	. # 13		0	1	63	0
% Successful *	77%	65%	0%	100%	67%	0%

*Includes duplicate counts.

8/29/2008

Program Review 2007-08 INDUSTRIAL TECHNOLOGY TOPs: 0956.00

Career Technical Education Division 11

10PS: 0956.00		03-04	04-05*	05-06	06-07	07-08
FTES	Summer	0.00	0.00	3.66	4.16	1.40
GENERATED	Fall	10.08	16.97	7.44	11.56	9.01
	Spring	3.90	5.76	6.63	7.65	4.74
	TOTAL	13.98	22.73	17.73	23.37	15.15
Growth/Decline [(Yr2	P-Yr1)/Yr1]	-25%	63%	-22%	32%	-35%
	Summer	0	0	366	416	210
LOAD	Growth/Decline	N/A	N/A	N/A	14%	-50%
(WSCH/FTE)	Fall	440	509	452	315	300
	Spring	585	362	249	287	178
	ERAGE, Fall & Spring	513	436	351	301	239
Growth/Decline [(Yr2	P-Yr1)/Yr1]	35%	-15%	-20%	-14%	-21%
	C	0	0	2.4	24	
	Summer	0	0	24	26	14
ENROLLMENT	Fall Spring	84 39	129 44	59 44	76 53	52 32
	TOTAL	123	173	127	155	
Growth/Decline [(Yr2		-13%	41%	-27%	22%	-37%
	Summer	0	0	1	1	1
NUMBER OF	Fall	4	6	5	4	3
SECTIONS	Spring	2	3	3	4	3
Growth/Decline /(Yr2	TOTAL	6	9	9	9	7
GIOWIT/Decline [(1/2	-111)/111]	0%	50%	0%	0%	-22%
	Summer	0.000	0.000	0.300	0.300	0.200
FTEF	Fall	0.687	1.000	0.700	1.100	0.900
	Spring	0.200	0.478	0.800	0.800	0.800
PERCENT	Summer	0%	0%	100%	108%	90%
FILL	Fall	89%	94%	66%	75%	75%
(1st cen/max enroll)	Spring ERAGE, Fall & Spring	98% 94%	81% 88%	61% 64%	83% 79%	<u>64%</u> 70%
AV	екное, гана эрниу	94%	88%	04%	19%	70%
PERCENT	Summer	0%	0%	96%	88%	68%
RETENTION	Fall	69%	72%	85%	78%	83%
(EOS/1st cen)	Spring	69%	80%	82%	86%	83%
AV	ERAGE, Fall & Spring	69%	76%	84%	82%	83%
APPORTIONMENT						
INCOME		\$48,860	\$79,191	\$74,856	\$102,057	\$66,160
(FTES * Annual Factor	r)					
EXPENSE	Salaries	\$11,852	\$37,961	\$149,861	\$161,410	
	Materials	\$1,353	\$4,083	\$17,658	\$32,660	
	Capital Outlay	\$14,535	-\$437	\$36,453	\$0	
	Total Direct	\$27,740	\$41,606	\$203,972	\$194,070	
	Indirect (Direct * .40)	\$11,096	\$16,643	\$81,589	\$77,628	
	TOTAL	\$38,836	\$58,249	\$285,560	\$271,698	\$0
ANNUAL		¢0.770	¢ 0 ⊑ (0	¢1/ 10/	¢11/0/	ф.О.
COST/FTES Growth/Decline /(Yr2	P_Vr1)/Vr11	\$2,778 15%	\$2,563 -8%	\$16,106 528%	\$11,626 -28%	\$0 -100%
	- 11 1/11 1	15%	-0 %	JZ0%	-20%	-100%

Prior to AY98-99 expense does not include capital outlay or VEA funds.

* Air Cond. & Rerig. (TOP 0945.10) separated in 2005

8/29/2008 Solano: Research and Planning

Program Review 2007-08 INDUSTRIAL TECHNOLOGY TOPs: 0956.00 (for Majors: 0958.30)

Career Technical Education Division 11 Year: 2007-08

	White,	African-			Other,	
<u>Summer</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A 1	0	0	0		1
	B 2 C 2	1 0	0 0	0 0		3 2
	D 1	0	0	0		1
	F 1	0	2	0	1	4
	CR 0	0	0	0		0
	NC 0 W 1	0 0	0	0 0		0
τοτα		1	3	0	1	13
% Successful *	63%	100%	0%	0%	0%	46%
	White,	African-			Other,	
<u>Fall</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A 20	2	6	3	1	32
	B 14 C 3	1 0	3 6	1	2 5	21 15
	D 2	0	0	0	0	2
	F 1	1	1	0	1	4
	CR 0	0	0	1		1
	NC 0 W 5	0 3	0	0 0		0 11
ΤΟΤΑ		7	19	6	9	86
% Successful *	82%	43%	79%	100%	89%	80%
	White,	African-			Other,	
<u>Spring</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A 15	1	6	4	1	27
	B 7 C 3	1 0	4 2	0 1		12 6
	D 0	0	2	0		0
	F 2	1	1	0		4
	CR 0	0	0	0		0
	NC 0	0	0	0		0
ΤΟΤΑ	W 1 L# 28	1	0 13	0 5	1	2 51
% Successful *	89%	50%	92%	100%	100%	88%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 INDUSTRIAL TECHNOLOGY TOPs: 0956.00 (for Majors: 0958.30)

Г

<u>Summer</u>	E	M	U	<u>ESL</u>	Non-ESL	<u>U</u>
	A 0		<u> </u>	0	1	<u> </u>
	В 0			0	3	
	C 0			0	2	
	D 0 F 1	3		0	1	
С		0		0	4	
N	C 0	0		0	0	
	N0	2		0	2	
TOTAL % Successful *	# <u>1</u> 0%	12 16%	0%	0%	13 46%	0%
% Successiui	0%	10%	0%	0%	40%	0%
Fall	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A 4	28		2	30	
	В 0	21		0	21	
	С 0	15		3	12	
	D 0	2		0	2	
	F 0	4		0	4	
С	R 0	1		0	1	
N	С 0	0		0	0	
1	<i>N</i> 0	11		3	8	
TOTAL		82	0	8	78	0
% Successful *	100%	79%	0%	800%	82%	0%
Carrier	F	N A		FCI		
<u>Spring</u> Grades *	<u>F</u> A 2	<u>M</u> 25	<u>U</u>	<u>ESL</u> 2	Non-ESL 25	<u>U</u>
	B 0			2	10	
	С 0			1	5	
	D 0	0		0	0	
С	F 1	3		1	3	
N N		0		0	0 0	
	N 0	2		0	2	
TOTAL	# 3		0	6	45	0
% Successful *	67%	90%	0%	83%	89%	0%

*Includes duplicate counts.

8/29/2008

Program Name: Fire Technology TOP Code: 2133; 2133.50; 0303 Prepared by: Roy Pike, Fire Technology Coordinator

Fire Technology Department

Part I. Goals/Objectives

1. What are the goals/objectives of the program? (State in terms of student learning outcomes — SLOs.)

- > Obtain employment and advance in the fire service field.
- Educate students on how to effectively and safely perform as part of a team, to effectively mitigate an emergency situation.
- Relate to others the history of how emergency services evolved and identify the driving mechanisms and components of modern emergency services.
- Provide guidance and leadership in the areas of pre-fire methodologies, fire prevention, and fire suppression.
- > Provide refresher training and certification to incumbent firefighters.
- To prepare a relatively small, but growing number of fire technology students, to transfer to four-year fire technology institutions such as CSU-Los Angeles and CSU-San Luis Obispo (Cal Poly).

2. List appropriate indicators of program success (i.e., measures of goals/objectives stated above). Include both quantitative and qualitative measures.

Quantitative

- > Approximately 332 individual student enrollments per semester.
- Approximately 5% or eighteen of current enrollments are incumbent, journey level firefighters.
- An average 97% of the cadets complete both the Wildland Fire Academy and the Firefighter I Academy.
- Approximately 17-24% of the students entering the fire program finish their associate's degree within two years. Most job-out and take a fire internship position with a volunteer fire department, obtaining full-time fire positions once they serve their one year internship.
- Less than three students per year transfer to a four-year institution majoring in fire technology or related field.

Part II. Analysis

1. Identify and explain the trends in:

Enrollment — Between the 2003-04 and 2007-08 academic years, enrollment in the Fire program increased by an average of 3%.

Retention — Between the 2003-04 and 2007-08 academic years, the retention rate of the fire program spiked at a high of 87%, to a low of 81%.

Fill rate — Fill rates have decreased steadily from a high of 94% in 2003-04, down to a current low of 73%. The cause for these decreases can be attributed to: the demand to quickly, not necessarily efficiently, fill the new Vallejo Center with representations of all programs including fire technology; the administrative decision to increase enrollments at the Travis AFB Center; and most importantly, the limitations placed on online course deliveries per instructor.

Other Factors — Administrative decisions, i.e., limiting the number of fire academies from two per semester to one per semester.

2. How do the above trends relate to the program goals identified during the last review?

The above trends are part of the normal cyclic spikes here at Solano Community College and, in most cases, the above trends were not unanticipated nor surprising when you consider: the administrative decisions made at the time, the state of the Fairfield campus (under construction and swing space issues), and the downward spiral of the State's economy.

Part III. Conclusions and Recommendations

1. What are the major accomplishments of the program since the last report?

- > Move to Vacaville Center completed and functioning smoothly.
- Two resource training officers, per academy, has: increased our success rates at both fire academies, reduced our cadet disciplinary suspensions and expulsions, and increased our ability to give verified remedial skills training and personal attention to our DSP students.
- ▶ Fire Technology Club re-established and functioning smoothly.
- ➢ No "lost time" academy cadet injuries.
- A new (to the program, but in fact 1977) type I fire engine and garage are now part of the fire program's facilities and equipment.
- The co-location of a Vacaville City vs. Solano Community College fire training grounds and facilities is nearing agreement.
- The FTE cost sharing agreement with local fire entities is beginning to take shape, with Fairfield and Vallejo having signed their respective agreements.

- > The re-structuring of the fire technology curriculum is about 40% complete.
- The State Fire Marshal accreditation package is on its final draft and will be submitted prior to the end of February 2009.

2. Based on the trend analysis above, are there any changes needed in order to meet program goals or to improve program effectiveness?

It is impossible to predict the ability to make changes that will be associated with the unprecedented budgetary issues facing the State and the accreditation unknowns.

There is one thing for certain: challenges are coming, most likely very major changes. It is equally certain that the fire program will meet its share of the challenges and will come out of the process, a better (not necessarily a larger) program.

Program Review 2007-08 FIRE TECHNOLOGY TOPS: 2133.00 + 2133.50 + 0303.00

Career Technical Education Division 11

	<u>.</u>	03-04	04-05	05-06	06-07	07-08
FTES	Summer	16.91	19.57	24.39	10.20	10.1
GENERATED	Fall	44.30	42.61	65.85	31.57	60.9
GENERATED	Spring	33.70	57.78	53.65	56.37	41.0
	TOTAL	94.91	119.96	143.89	98.14	112.0
Growth/Decline [(Yr2-		-8%	26%	20%	-32%	14%
	Summor	222	375	220	202	27
LOAD	Summer Growth/Decline	333 -17%	13%	339 -10%	383 13%	37 -1%
(WSCH/FTE)	Fall	391	475	465	242	38
(11301/11/)	Spring	497	473	405	449	29
AV/FI	RAGE, Fall & Spring	444	490	435	346	341
Growth/Decline [(Yr2-	Yr1)/Yr1]	-6%	10%	-11%	-21%	-1%
	Summer	57	59	137	102	10
ENROLLMENT	Fall	332	400	488	289	31
	Spring	332	309	367	292	29
Growth/Decline [(Yr2-	TOTAL Vr1)/Vr11	721	768	992	683	70
	<i>[]]]</i>	-2%	7%	29%	-31%	3%
	Summer	3	2	7	4	
NUMBER OF	Fall	13	14	19	13	1
SECTIONS	Spring	11	18	20	12	1
	TOTAL	27	34	46	29	3
Growth/Decline [(Yr2-	Yr1)/Yr1]	-4%	26%	35%	-37%	10%
	Summer	1.522	1.567	2.158	0.800	0.80
FTEF	Fall	3.400	2.689	4.252	3.919	4.72
1121	Spring	2.033	3.484	3.977	3.771	4.16
DEDOENT		550/	700/	0504	0504	750
PERCENT	Summer	55%	79%	95%	85%	759
FILL	Fall	89%	91%	84%	79%	739
(1st cen/max enroll) AVF	Spring RAGE, Fall & Spring	98% 94%	88% 90%	77% 81%	82% 81%	729 73%
,		7470	9070	0170	0170	7370
PERCENT	Summer	81%	83%	84%	48%	749
RETENTION	Fall	85%	86%	81%	81%	879
(EOS/1st cen)	Spring	79%	87%	80%	87%	769
AVE	RAGE, Fall & Spring	82%	87%	81%	84%	82%
APPORTIONMENT						
INCOME		\$331,710	\$417,941	\$607,504	\$428,577	\$489,41
(FTES * Annual Factor))					
EXPENSE	Salaries	\$167,789	\$193,485	\$259,039	\$204,093	
	Materials	\$17,386	\$35,389	\$65,213	\$53,907	
	Capital Outlay	\$0	\$0	\$313	\$4,687	
	Total Direct	\$185,175	\$228,874	\$324,564	\$262,687	
	ndirect (Direct *.40)	\$74,070	\$91,549	\$129,826	\$105,075	
I			#000 100		\$367,761	\$
	TOTAL	\$259,245	\$320,423	\$454,389	\$307,701	Ý
ANNUAL COST/FTES	TOTAL	\$259,245 \$2,731	\$320,423	\$454,389	\$3,747	\$

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008

Program Review 2007-08 FIRE TECHNOLOGY TOPS: 2133.00 + 2133.50 + 0303.00

Career Technical Education Division 11 Year: 2007-08

	White,	African-			Other,	
<u>Summer</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
	A 34	1	5	3	4	47
	B 12	1	2	0	1	16
	C 5	0	3	0		8
	D 1 F 1	0 0	1	0 0	1	2 3
С		0	0	0	1	5 0
N		0	0	0		0
	0 0 N 8	2	1	1	3	15
TOTAL		4	13	4	9	91
% Successful *	84%	50%	77%	75%	56%	78%
	White,	African-			Other,	
<u>Fall</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
	A 80	1	25	6	9	121
	B 42	3	22	6	7	80
	C 27	3	9	2	2	43
	D 3 F 10	2 2	1	 2		7 16
С		2	0	5 0		10
N N		0	0	0		0
	N 9	3	6	0	4	22
TOTAL	# 172	14	64	18	22	290
% Successful *	87%	50%	88%	78%	82%	84%
	White,	African-			Other,	
<u>Spring</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
	A 66	1	13	1	6	87
	B 50	1	14	10	7	82
	C 17	4	4	2	2	29 12
	D 5 F 11	1	2 5	1 0	3	12 20
С		0	5 0	0	3	20 1
N		0	0	0		0
	N 11	6	3	5 7	5	32
TOTAL		14	41	21	26	263
% Successful *	83%	43%	76%	62%	58%	76%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 FIRE TECHNOLOGY TOPS: 2133.00 + 2133.50 + 0303.00

<u>Summer</u>		F	М	U	<u>ESL</u>	Non-ESL	U
Grades *	Α	1	46		0	47	
	B	1	15		0	16	
	D	0	7 2		0	8 2	
	F	0	3		0	3	
	CR	0	0		0	0	
	NC W	0	0 12		0 0	0 15	
TO	TAL #	6	85	0	0	91	0
% Successful *		50%	80%	0%	0%	78%	0%
<u>Fall</u>	_	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A	4	117		1	120	
	B C	5 0	75 43		0	79 43	
	D	0	7		0	7	
	F	0	16		1	15	
	CR NC	0 0	1 0		0	1 0	
	W	0	22		0	22	
	TAL #	9	281	0	3	287	0
% Successful *		100%	84%	0%	67%	85%	0%
		_					
<u>Spring</u> Grades *		<u> </u>	<u>M</u>	<u>U</u>	ESL	Non-ESL	<u>U</u>
Grades	A B	8 3	79 79		0 0	87 82	
	C	2	27		0	29	
	D	1	11		0	12	
	F CR	3 0	17		1 0	19 1	
	NC	0	0		0	0	
	W	1	31		0	32	
	TAL #	18	245	0	1	262	0
% Successful *		72%	76%	0%	0%	76%	0%

*Includes duplicate counts.

8/29/2008

Program Name: Ornamental Horticulture TOP Code: 0109.00 Prepared by: Ken Williams, Sandra Diehl Faculty:

Ornamental Horticulture

Part I Goals/Objectives

1. What are the goals/objectives of the program? (State in terms of student learning outcomes — SLOs.)

Horticulture Science

- > To teach students the following:
 - Identification of landscape plant material by their leaves, bark, fruit, flower, and growth habits.
 - Binomial nomenclature of plant names: proper pronunciation, spelling, and usage.
 - ♦ Basic botany: plant vascular systems, leaf arrangements and function, processes of photosynthesis, nitrogen cycle, and hydrologic cycle.
 - How to properly place plants in a landscape by size, color, growth habits, and ornamental value.
 - ♦ To draw a landscape design using mechanical drawing skills and the appropriate landscape plant materials.
 - ♦ To install landscape plants and hardscape materials, using proper planting techniques and current UC Cooperative standards.
 - Identification of landscape pests: insects, weeds, and diseases. Students will use their skill at insect and pest damage recognition to develop a plan to correct the problem. They will also be able to identify weeds from ornamental plants and develop plans for control.
 - ♦ UC Cooperative standards for integrated pest management.
 - ◊ To identify the different types of landscape soil profiles. Students will use their knowledge of soils to determine proper watering and fertilizing techniques.
 - ◊ The principles and practices of landscape irrigation. The student will be able to calculate irrigation demand, availability, and design a water efficient irrigation system.
- To provide career, hands-on training for mainstream students entering the Landscape Maintenance, Greenhouse / Propagation, Nursery & Farming Industries and Rehabilitative Therapy programs.

Adaptive Horticulture Program

- To provide students, who have special learning needs and challenges, the job training for entry-level positions within the Landscape Maintenance, Greenhouse / Propagation, and Nursery & Farming industries.
- To introduce students, who have special learning needs and challenges, to the basic horticultural concepts applied in a garden, nursery, and/or landscape setting.
- To teach students, who have special learning needs and challenges, appropriate workplace skills of responsibility, productivity, selfmanagement, self-awareness, and effective communication.
- To prepare students, who have special learning needs and challenges, for entering mainstream curriculum courses on the SCC campus.
- To provide career hands-on training for mainstream students entering the Landscape Maintenance, Greenhouse / Propagation, Nursery & Farming Industries and Rehabilitative Therapy programs.

2. List appropriate indicators of program success (i.e., measures of goals/objectives stated above). Include both quantitative and qualitative measures.

Horticulture Science

Quantitative:

- > Students earning a Horticulture Science Certificate.
- Students earning an Associates of Science degree in Ornamental Horticulture.
- Students successfully completing their natural sciences requirement for general education.
- > Students entering the job market in horticulture related fields:
 - ♦ Landscape designer
 - ♦ Landscape construction foreman
 - ♦ Manager of nursery
 - ♦ Florist
 - ♦ Pond and fish supply manager
 - ♦ Landscape maintenance personnel

Qualitative:

- Continued success of students entering the design field.
- > Students being sought for positions at nurseries.
- > Continued student participation from Solano County Master Gardeners.
- > UC Cooperative Extension desiring continuing education.

Adaptive Horticulture Program

Quantitative:

- Student success entering the job market.
- Student success entering mainstream curriculum courses on campus.
- Student success of completion of program.
- Increased demand for classes from on-campus disabilities services and multiple outside agencies.
- Increased enrollment of mainstream students wanting to work with disabled populations in horticulture.

Qualitative:

- Outside agencies and local high schools promote the program throughout Solano County.
- > Outside agencies support students' success.
- > Measurable student outcomes for horticultural job skills.
- ➤ Measurable student outcomes for success and well being.

Part II Analysis

1. Identify and explain the trends in:

Horticulture Science

Enrollment — Enrollment in horticulture science has been a challenge for the staff and the department due to several factors:

- Lack of a full-time instructor to support and promote the program.
- Lack of cooperation and help from the Counseling Department.
- Lack of acknowledgement throughout the community that SCC has a horticulture program due to lack of promotion.
- > Changes in the horticulture industry towards the labor force.

Retention — Once students learn of the program and get involved, they have continued to enroll in advanced classes. Students who have taken HORT 050: *Introduction to Horticulture* for their general education requirement in the natural sciences have come back to take advanced classes for their own edification.

Fill rate — The fill rate has been low. The program has met or exceeded minimum standards every semester, however, full classes have not been noted for some time.

Other Factors — As stated above, the Counseling Department has not helped the program by not recommending HORT 050 as an alternative science. Also, we have been told that on several occasions, when asked about the program, they have told the student that the program was going away and they should not bother.

Adaptive Horticulture

Enrollment — Program began summer 2007. Class maximum enrollment is twenty-four students. In 2007-08, the average class size per eight-week session was 21.4 students; in 2008-09, the average class size per eight-week session is 29.8 students; this represents 39% growth from the first year to the current year.

2. How do the above trends relate to the program goals identified during the last review?

Horticulture Science

Continued enrollment indicates a desire for the community to enroll in horticulture classes. Horticulture is the number one hobby in the United States and horticulture classes are in demand when offered at the right time with the right subject. Student success in the field of horticulture is a direct relationship to the program at SCC.

Adaptive Horticulture Program

Increased enrollment indicates the program is meeting the needs of the students and community. Students who enroll are from a wider segment of the campus community, the various county agencies, high schools, and rehabilitative programs. Students' retention success is directly related to program goals.

Part III Conclusions and Recommendations

1. What are the major accomplishments of the program during the past four years?

Horticulture Science

- The two current horticulture instructors at SCC are both graduates of the Horticulture Science program at Solano. They both hold horticulture positions in the private sectors that can be attributed directly to the Horticulture Science program at SCC.
- The two current horticulture instructors at SCC are both recent graduates of the Horticulture Therapy Institute and have used, and will continue to use, their newfound education for both the adaptive horticulture students and the mainstream students.
- Seventeen students are currently enrolled or have been enrolled to receive their AS in Horticulture Science. Most of these students have completed their requirements for horticulture and are currently working on their general educations requirements. Six of these seventeen are also active Master Gardeners for the Solano County UC Cooperative Extension.
- Sixteen students have successfully completed HORT 050 to fulfill their natural sciences requirements for general education.
- Twenty-seven students have enrolled in the Horticulture Science Certificate program and have successfully completed most of the courses they need.

- Twenty-eight students have enrolled in continuing education in various subjects. Of these twenty-eight students, nine are Master Gardeners for Solano County UC Cooperative Extension.
- One of the above mentioned students recently received three certificates in three different areas of horticulture.
- One of the above mentioned students has gained employment as a nursery manager.
- > Of the above mentioned students, six are active landscape designers.
- Of the above mentioned students, one is a landscape designer for her husband's landscape construction company in Napa, CA.
- Facilities include: working nursery, two greenhouses, fruit tree orchards, grape vineyards, raised vegetable beds and demonstration gardens. All are in yearround production with live products.
- Community outreach program through the Horticulture Club has recently taken a large step to reach out to the community. The Club has changed its by-laws and constitution to accept members without being active students (only students may hold an office in the club). Membership is growing daily, as evidenced by having an average membership over the years of fourteen to eighteen and, to date, we have twenty-seven members.
- The Horticulture Club has recently joined the Garden Clubs of California, Inc., and the National Garden Clubs, Inc.

Adaptive Horticulture Program (program 2 years old)

- > All students who have completed the program are now employed.
- Program curriculum developed through instructor certification training in horticultural therapy from the American Horticultural Therapy Institute.
- Quarterly Disability Services Advisory Committee attended and maintained (Solano County Human Services Agencies & SCC).
- Implemented an on-campus Farmers' Market to sell produce, fruit, and plants grown by students.
- Program operates as a business model to grow and sell products.
- Market and promote SCC positively, while serving community population needs.
- Several students employed / participated in installation of landscaping project at Potrero Hills Landfill last summer.
- Future SCC Daycare Center landscape installation project, using students, is in the development stage.

- Program serves as a model for other counties and agencies wanting to implement a similar program. Representatives from Sacramento and Napa community colleges / Health & Social Services, United Way, Cerebral Palsy, and mental health advisors from Holland have toured the program.
- Collaboration for student placement from Solano County agencies (WIB, DOR, SCOE - TPP, TAY, North Bay Regional Center, Dreamcatchers, Crestwood Behavioral Health, No Barriers, WorkAbility - High School Job Shadow Program, SDS).
- Collaboration for student placement from Solano County high schools (Fairfield, Vallejo, Benicia, and Dixon).
- Student populations served include a variety of disabilities: cognitive, physical, emotional, rehabilitation, and mental illness. Other populations served include displaced workers, returning military veterans, welfare to work recipients, and the homeless.
- Facilities include: working nursery, two greenhouses, fruit tree orchards, grape vineyards, raised vegetable beds and demonstration gardens. All are in yearround production with live product.

2. Based on the trend analysis above, are there any changes needed in order to meet program goals or to improve program effectiveness? Explain.

Horticulture Science

- Make the local community more aware of the great opportunity they have at SCC to learn and develop more skills and knowledge as horticulturists.
- Facility infrastructure needs minor repairs to become more efficient and productive.
- > Budget for materials needs to be established and supported.
- Need to establish contacts with local potential employers to job-place more students.
- SCC Counseling Department needs to promote the program more effectively and positively.
- Develop surrounding property to increase orchards, vineyards, and vegetable growing areas.
- Develop short-term (Vista) classes for those people not desiring a certificate or a degree.
- Get cooperation from UC and CSU to come to SCC and talk to students about transferring to their college for further education.
- > Develop new curriculum for advanced classes.

Adaptive Horticulture Program

- Continuing a trend of growing enrollment suggests more classes should be offered, thus requiring additional instructional and support staffing. Program reputation is rapidly growing throughout the county, enrollment trends will only continue to increase. Currently, more than 40 students in each eight-week session want to enroll, resulting in ten or more students being turned away.
- Class size maximums should be limited to twenty-four to provide effective educational instruction and student training.
- Facility infrastructure needs minor repairs to become more efficient and productive.
- > Budget for materials needs to established and supported.
- Need to establish contacts with local potential employers to job-place more students.
- SCC Counseling Department needs to promote the program more effectively.
- Develop surrounding property to increase orchards, vineyards, and vegetable growing areas.
- > Develop new curriculum for advanced classes.

Program Review 2007-08 HORTICULTURE TOPs: 0109.00

Career Technical Education Division 11

10FS. 0109.00		03-04	04-05	05-06	06-07	07-08
FTES	Summer	0.00	0.00	0.00	0.00	4.75
GENERATED	Fall	11.29	12.65	12.69	5.08	16.07
02.12.0.120	Spring	14.75	11.29	3.40	6.07	15.77
	TOTAL	26.04	23.94	16.09	11.15	36.59
Growth/Decline [(Yr2-Yr	1)/Yr1]	2%	-8%	-33%	-31%	228%
	Summer					428
LOAD	Growth/Decline	N/A	N/A	N/A	N/A	420 N/A
(WSCH/FTE)	Fall	394	316	270	228	374
	Spring	365	308	278	303	380
	AVERAGE, Fall & Spring	380	312	274	266	377
Growth/Decline [(Yr2-Yr	1)/Yr1]	-9%	-18%	-12%	-3%	42%
	Summer	0	0	0	0	23
ENROLLMENT	Fall	61	69	92	27	62
EnttoLEment	Spring	82	73	17	35	74
	TOTAL	143	142	109	62	159
Growth/Decline [(Yr2-Yr	1)/Yr1]	-10%	-1%	-23%	-43%	156%
	Summer	0	0	0	0	1
NUMBER OF	Fall	3	4	7	2	7
SECTIONS	Spring <i>TOTAL</i>	4	5 9	3 10	5	10 18
Growth/Decline /(Yr2-Yr		-13%	29%	11%	-50%	260%
	, , , , , , , , , , , , , , , , , , ,					
	Summer	0.000	0.000	0.000	0.000	0.333
FTEF	Fall	0.860	1.200	1.411	0.667	1.289
	Spring	1.213	1.100	0.367	0.600	1.244
DEDOENT	C	00/	00/	00/	00/	0/0/
PERCENT FILL	Summer Fall	0% 85%	0% 72%	0% 64%	0% 56%	<u>96%</u> 37%
(1st cen/max enroll)	Spring	85%	72%	71%	73%	31%
(Tot contribut on on	AVERAGE, Fall & Spring	85%	74%	68%	65%	34%
PERCENT	Summer	0%	0%	0%	0%	96%
RETENTION	Fall	89%	91%	83%	93%	84%
(EOS/1st cen)	Spring	83%	77%	65%	91%	88%
	AVERAGE, Fall & Spring	86%	84%	74%	92%	86%
APPORTIONMENT						
INCOME		\$91,010	\$83,407	\$67,932	\$48,692	\$159,789
(FTES * Annual Factor)		\$71,010	\$03,407	\$07,73Z	Ψ 1 0,072	\$137,707
(1720 / 11/1/2010)						
EXPENSE	Salaries	\$31,947	\$37,698	\$36,902	\$17,634	
	Materials	\$5,310	\$2,822	\$4,717	\$4,166	
	Capital Outlay Total Direct	\$0 \$27.257	\$0 \$40,520	\$0 \$41,619	\$0 \$21 800	
	Indirect (Direct * .40)	\$37,257 \$14,903	\$40,520 \$16,208	\$41,619 \$16,647	\$21,800 \$8,720	
	TOTAL	\$14,903	\$56,728	\$58,266	\$8,720	\$0
ANNUAL	, OTAL	ψ32,100	<i>\\$</i> 30,720	<i>\\$</i> 30,200	<i>\$</i> 30,320	ψU
COST/FTES		\$2,003	\$2,370	\$3,621	\$2,737	\$0
Growth/Decline /(Yr2-Yr	1)/Yr1]	-56%	18%	53%	-24%	-100%

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008 Solano: Research and Planning

Program Review 2007-08 HORTICULTURE TOPs: 0109.00

Career Technical Education Division 11 Year: 2007-08

		White,	African-			Other,	
Summer	_	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A	0	0	0	0		0
	В	0	0	0	0		0
	С	0	0	0	0		0
	D	0	0	0	0		0
	F	0	0	0	0	_	0
	CR	11	5	2	0	2	20
	NC	0	0	0	0		0
то	W	12	0 5	0	0	2	21
% Successful *	TAL #	92%	ح 100%	100%	0%	 100%	95%
		White,	African-	10076	070	Other,	7570
Fall		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	А	13	0	1	1	1	16
	В	4	2	0	0	3	9
	С	2	0	2	0		4
	D	2	0	1	0		3
	F	0	0	1	0		1
	CR	6	3	3	0	2	14
	NC	3	1	1	0	1	6
	W	1	2	0	1		4
	TAL #	31	8	9	2	7	57
% Successful *		81%	63%	67%	50%	86%	75%
		White,	African-			Other,	
<u>Spring</u>	. r	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A	18	3	4	1	6	32
	B	9	1	1	0	7	18 7
	С	2	2	1	0	2	7
	D F	2 0	1 0	0	0 0		3 1
	г CR	0	0		0		3
	NC	0	2	0	0		3 0
	W	3	1	2	0		6
ТО	TAL #	35	10	9	1	15	70
% Successful *		86%	80%	67%	100%	100%	86%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 HORTICULTURE TOPs: 0109.00

Summer		<u>F</u>	M	<u>U</u>		<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	Α	0	0			0	0	
	В	0	0			0	0	
	С	0	0			0	0	
	D	0	0			0	0	
	F	0	0			0	0	
	CR	6	14			0	20	
	NC	0	0			0	0	
тот	W	0	1		_	0	1	
	AL #	6	15	0%	0	0 0%	21	0%
% Successful *		100%	93%	0%		0%	95%	0%
<u>Fall</u>	_	<u>F</u>	M	<u>U</u>		<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	Α	11	5			0	16	
	В	6	3			0	9	
	С	3	1			0	4	
	D	2	1			0	3	
	F	0	1			1	0	
	CR	/	/			1	13	
	NC W	3	3			0	6	
тот,		33	3 24		0	0	4 55	0
% Successful *	AL #	33 82%	67%	0%	0	2 50%	76%	0%
/0 3000533101		0270	0770	070		5078	1070	070
		_						
<u>Spring</u>	-	<u> </u>	<u>M</u>	<u>U</u>	_	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A	18	14			1	29	2
	В	11	7			0	18	0
	С	2	5			1	6	0
	D	0	3			0	3	0
	F CR	0 3				0	1	0 0
	NC	3 0	0			0	3 0	0
	W	3	3			2	4	0
TOT		37	33		0	4	64	2
% Successful *	, .L //	92%	79%	0%	Ť	50%	88%	100%
			0	370		5570	00/0	

*Includes duplicate counts.

8/29/2008

 Program Name:
 Occupational Education/ Work Experience

 TOP Code:
 0999.00

 Prepared by:
 Debra Berrett, Coordinator

Occupational Education/Work Experience Department

Part I Goals/Objectives

1. What are the goals/objectives of the program? (State in terms of student learning outcomes — SLOs.)

- Note: The goal of this program is assisting students to succeed, and goes beyond what students actively learn (SLOs). It is also to provide access to employment and internship opportunities, increase communication with employers, and to serve as a liaison in workplace issues.
- Analyze, design, develop, and record learning objectives that are specific, achievable, reasonable, and time-bound.
- Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.
- Demonstrate high and efficient qualities of self-management and selfawareness, in terms of workplace responsibility and productivity.
- Demonstrate effective communication skills and professional relationships in the workplace.

2. List appropriate indicators of program success (i.e., measures of goals/objectives stated above). Include both quantitative and qualitative measures.

Quantitative:

- Employer and instructor evaluation of student goals, as per *Title 5*.
- Employer evaluation of student's workplace accomplishments, as per *Title* 5.
- Student evaluation of program.
- Increased demand for Solano Community College work experience students by area employers.
- > Created defined internship programs with local industry.
- Maintained or increased student enrollment in 2006-07, increases opportunities for student participation.
- Maintained a website presence for students and employers.
- Maintained off-campus work experience classes to provide access.

Qualitative:

- Student's development of workplace motivation and self-management.
- Employer's commendations of student attitude and soft skills performance.
- Increased job satisfaction and career success by returning students.
- Former students in management positions sending employee in to take the program.

Part II Analysis

1. Identify and explain the trends in:

Enrollment — Enrollment for 2007-08 remained high with enrollment of 162% in the fall and 136% in the spring. This program may begin experiencing fluctuations in enrollment due to Title 5 regulations and institutional changes. Enrollment increased in fall 2008 due to changes in *Title 5* removing the requirement to be enrolled in seven units and increasing the repeatability of the Occupational program from twelve units to the State allowed sixteen units. Spring 2009 introduces an increase in the number of units a student can earn for a full semester course, which should increase enrollment, but severe cuts in the number of sections to be offered. due to the implementation of a new registration system, may offset growth. Classes at off-site campuses will be cut and the options for full-semester, twelve-week and eight-week sections will be eliminated. Additionally, new contract requirements for instructors do not allow enrollments of more than 160%. This means enrollments have to be denied to ensure there is no possibility of the instructor exceeding the limits imposed by the contract. The economy also impacts the enrollment in this program. Businesses facing a shortage of help are sometimes reluctant to further burden overworked staff with the oversight of interns.

Retention — Retention in this course is directly affected by the economy at large. When companies cutback or close, students are forced to drop the class. Early drop rates also occur as students realize this course has class work beyond just going to work and signing a timecard. Students are continuing to find email an effective way to connect with the instructor and it enables problems and issues to be solved more efficiently. The continuation of online course work has also made it easier for students to maintain enrollment around their jobs and military service. Online students are becoming comfortable with technology and the different way they need to study to be successful. Maintaining a website has allowed students access to handbooks, forms, and program requirements when they need them. The Department will probably continue to experience a higher retention loss with OCED 091: *General Work Experience*, which enrolls students who, at this time, are not as goal-oriented as the occupational students and more likely to quit or change jobs more frequently.

Fill rate — Fill rate is always over 100%.

Other Factor —

- A percentage (approximately one-fourth) of students repeat the course for additional credit in subsequent semesters.
- > High degree of industry acceptance and interest.
- > Increased job satisfaction and supervisor approval.

Qualitative Factors —

- Maintaining course offerings online and off-campus.
- > Maintaining intensive recruiting on and off-campus.
- > Quality of instruction in relation to job objectives.
- > Continued program efficiency to campus and off-campus sites.
- Maintained employer involvement as work-stations.
- > Continued program efficiency by offering online and short-term classes.
- Providing online access to forms and instructor.

2. How do the above trends relate to the program goals identified during the last review?

- Increased enrollment indicates the program is meeting the needs of the community and the students.
- Increased employer demand for SCC work experience students, indicates program is meeting employer needs.
- Students enrolling from a wider segment of the campus indicate expanded recruiting is effective.

Part III Conclusions and Recommendations

1. What are the major accomplishments of the program since the last report?

- ▶ Maintained student count in the program between 135-162%.
- ➤ Maintained three campus sites and two online course rooms.
- Maintained work sites in the business community.
- Maintained 10 twelve-week and 10 eight-week work experience sections, in addition to the 10 full-semester sections and two online sections, up to fall 2008.
- In fall 2008, maintained ninety-seven sections of work experience after transition is made to a new registration system.
- Maintained Occupational Education units transferable to C.S.U.
- Scheduled business leaders from the community to speak to students.
- Continued progress on work experience website.

- Continued effort to provide internship opportunities via online database.
- Maintained conversion of student records to computer, although still no database.
- Maintained online and e-mail system for students to contact instructor, replace lost forms, and submit assignments.
- Refined online curriculum for both, OCED 090: Occupation Work Experience and OCED 091: General Work Experience.
- Increased the voice of the Solano Community College program, through participation as a member of the California Cooperative Education and Internship Association.
- Attended seminars at statewide conferences on program development, online work experience, and work experience curriculum design.
- Organized participation in local festival to promote Solano College and the Work Experience program.

2. Based on the trend analysis above, are there any changes needed in order to meet program goals or to improve program effectiveness?

- Clerical support help to maintain the quality of the Work Experience program. *Title 5* requires, "the district plan shall contain provisions for adequate clerical and instructional services." Total reliance on Federal Work Study Students is inconsistent, unreliable, and imposes greater responsibilities than reasonable on student help.
- Hiring of additional faculty to better manage the increasing numbers of students; increase section offerings to accommodate that need.
- Additional personnel devoted to internship development in the community. It takes many hours to work with a company and develop an appropriate internship program. This is best accomplished by personnel with that one focus.
- > Development of more employment sites for student placement.
- College needs to develop and implement a marketing tool that will reach all Solano County residents and businesses.
- Create a course management database to more effectively maintain student and employer records.
- Close interaction and cooperation with other campus entities to share resources, increase campus faculty/staff awareness of the program, and further increase enrollment.
- Connect with area high schools to increase awareness of the program for future students. Draft specific requirements or limitations for high school participation.

Create space on the College website for a full, interactive work experience site, where students and community employers can access the most up to date information about the program. The intent will be to allow employers to post requests for student interns and for students to request internships online, as well as providing access to required paperwork, application forms, and rules and regulations regarding the program.

Program Review 2007-08 OCCUPATIONAL EDUCATION (Work Experience) TOPs: 0999.00

Career Technical Education Division 11

TOPS: 0999.00		03-04	04-05	05-06	06-07	07-08
FTES GENERATED	Summer	0.00	0.00	0.00	0.00	0.00
	Fall	17.26	17.12	17.61	14.45	17.62
	Spring	20.24	18.93	14.85	16.06	16.08
	TOTAL	37.50	36.05	32.46	30.51	33.70
Growth/Decline [(Yr2-Yr1)/Yr1]		0%	-4%	-10%	-6%	10%
	Summer	0	0	0	0	0
LOAD	Growth/Decline	N/A	N/A	N/A	N/A	N/A
(WSCH/FTE)	Fall	366	234	367	323	332
	Spring	379	372	348	386	354
AVE	RAGE, Fall & Spring	373	303	358	355	343
Growth/Decline [(Yr2-Yr1)/Y	r]]	-2%	-19%	18%	-1%	-3%
ENROLLMENT	Summer	0	0	0	0	0
	Fall	178	187	185	164	202
	Spring	202	192	159	154	170
TOTAL		380	379	344	318	372
Growth/Decline [(Yr2-Yr1)/Yr1]		1%	0%	-9%	-8%	17%
	Summer	0	0	0	0	0
NUMBER OF	Fall	27	32	32	32	32
SECTIONS	Spring	32	32	32	32	31
	TOTAL	59	64	64	64	63
Growth/Decline [(Yr2-Yr1)/Y	r1]	0%	8%	0%	0%	-2%
FTEF	Summer	0.000	0.000	0.000	0.000	0.000
	Fall	1.416	1.456	1.440	1.344	1.592
	Spring	1.600	1.528	1.280	1.248	1.360
PERCENT	Summer	0%	0%	0%	0%	0%
FILL	Fall	142%	107%	148%	44%	58%
(1st cen/max enroll)	Spring	162%	154%	127%	123%	113%
	ERAGE, Fall & Spring	152%	131%	138%	84%	86%
PERCENT	Summer	0%	0%	0%	0%	0%
RETENTION	Fall	77%	73%	57%	66%	68%
(EOS/1st cen)	Spring	70%	70%	72%	82%	62%
AVE	E RAGE , Fall & Spring	74%	72%	65%	74%	65%
APPORTIONMENT						
INCOME		\$131,063	\$125,598	\$137,046	\$133,237	\$147,168
(FTES * Annual Factor)						-
EXPENSE	Salaries	\$78,294	\$83,221	\$88,707	\$73,392	
	Materials	\$0	\$4,476	\$1,657	\$1,860	
	Capital Outlay	\$0	\$0	\$0	\$28,142	
	Total Direct	\$78,294	\$87,698	\$90,364	\$103,394	
	Indirect (Direct * .40)	\$31,318	\$35,079	\$36,146	\$41,357	
ANNUAL	TOTAL	\$109,612	\$122,777	\$126,510	\$144,751	\$C
COST/FTES		\$2,923	\$3,406	\$3,897	\$4,744	\$C
Growth/Decline [(Yr2-Yr1)/Y	r11	1%	17%	14%	22%	-100%

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008

Program Review 2007-08 OCCUPATIONAL EDUCATION (Work Experience) TOPs: 0999.00

Career Technical Education Division 11 Year: 2007-08

	White,	African-			Other,	
<u>Summer</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades * A		0	0	0	0	0
В		0	0	0	0	0
C	0	0	0	0	0	0
D	0	0	0	0	0	0
F CR	-	0 0	0 0	0 0	0	0
NC		0	0	0	0	0
W		0	0	0	0	0
TOTAL #		0	0	0	0	0
% Successful *	0%	0%	0%	0%	0%	0%
	White,	African-			Other,	
<u>Fall</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades * A		12	9	10	8	74
В		6	0	1	1	16
C	5	3	3	3	0	14
D	1]	1	1	0	4
F CR	5 0	4	0	0	4	14 0
NC		0	0	0	0	0
W		21	6	4	9	52
TOTAL #		47	19	20	22	174
% Successful *	73%	45%	63%	70%	41%	60%
	White,	African-			Other,	
<u>Spring</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades * A		8	9	2	11	59
В		6	4	1	1	18
C	6	3	0	1		10
D		4	0	0		4
F		9	1	0	1	13
		0	0	0 0		0
W		0 17	6	0	10	0 45
TOTAL #		47	20	5	23	45 149
% Successful *	76%	36%	65%	80%	52%	58%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 OCCUPATIONAL EDUCATION (Work Experience) TOPs: 0999.00

Career Technical Education Division 11 Year: 2007-08

Summer	F	М	<u>U</u>	ESL	Non-ESL	U
Grades * A	0	0		0		
В	0	0		0	0	
C	0 0	0 0		0	0 0	
F	0	0		0	0	
CR	0	0		0	0	
NC	0	0		0	0	
W TOTAL #	0 0	0	0	0	0 0	0
% Successful *	0%	0%	0%	0%	0%	0%
<u>Fall</u>	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades * A	57	17		4	70	
В	10	6		0	16 12	
C	9 1	5 3		0	13 4	
F	10	4		0	14	
CR	0	0		0	0	
NC W	0	0		0	0	
TOTAL #	34 121	18 53	0	6	51 168	0
% Successful *	63%	53%	0%	83%	59%	0%
<u>Spring</u>	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades * A	41	18		2		
B	12 6	6		1	17 10	
D	0 3	4		0	4	
F	10	3		0	13	
CR	0	0		0	0	
NC W	0	0		0	0 4 E	
W TOTAL #	34 106	11 43	0	0		0
% Successful *	56%	65%	0%	100%	58%	0%

*Includes duplicate counts.

8/29/2008

Program Name: Welding TOP Code: 0956.50, 0937.01 Prepared by: David Nourot

Welding Department

Part I Goals/Objectives

1. What are the goals/objectives of the program? (State in terms of student learning outcomes — SLOs.)

- Students will increase their knowledge of welding.
- Students will demonstrate the ability to work effectively and safely with equipment used to weld metals.
- Students will apply correct procedures to the fabrication of welded objects.
- Students will apply the welding skills needed to gain employment in related trades.

2. List appropriate indicators of program success (i.e., measures of goals/objectives stated above). Include both quantitative and qualitative measures.

Quantitative:

- Students applying skills taught in there professions.
- Students completing program successfully.
- Students gaining employment as welders.
- Students gaining employment in related trades.

Qualitative:

- > Interest of student population in the program.
- Student evaluation of instructors
- Student knowledge of concepts presented during training.
- Diversity of student population.

Part II Analysis

1. Identify and explain the trends in:

Enrollment — The number of students enrolled in the program increased from 317 in 2006-07, to 327 in 2007-08. The general trend has been for increased enrollment in the program.

Retention — Data indicate an annual 84% retention rate during 2006-07 academic year and a lowering of retention to 80% in 2007-08.

Fill rate — A 126% fill rate was achieved, when counting all students enrolled in the welding courses for the 2007-08 academic year. Instructor load (WSCH/FTEF) has been an average 538, for the last two years.

Other Factor — Some students are leaving the program to take jobs before they complete all of their training. State core indicators show that the program has a 48.28% completion rate, which is 29% below state performance goals. Retention and skill attainment are above the State's performance goals, while participation by non-traditional students is below the goals.

Qualitative Factors — High enrollment in the program indicates student interest. High employment retention indicates the proper skills and knowledge are being acquired by the students. Low diversity indicates a need for better outreach.

2. How do the above trends relate to the program goals identified during the last review?

- Some improvement in enrollment can be attributed to the student's desire to cross-train in several trades, to meet industry's changing needs. Students continue to acquire skills and knowledge to meet industrial standards.
- Addition of a smart classroom and some newer machines has increased the program's efficiency.

Part III Conclusions and Recommendations

1. What are the major accomplishments of the program since the last report?

Major accomplishments include: placement of students into industry, enhancement of skill levels of students already on the job, and refinement of course content. Six new inverter-type welders were added to the lab equipment and smart classroom equipment was added to the lecture area. The addition of a Saturday schedule has allowed students to attend the program at alternative hours.

2. Based on the trend analysis above, are there any changes needed in order to meet program goals or to improve program effectiveness? Explain.

- Students continue to gain employment and upgrade their skill levels because of the welding courses at Solano College. Some students leave before the completion of the day or evening program, then return at a different time of day to continue their training. By increasing flexibility, the program will be able to help these students.
- A trend observed is the need for more time by students in certain areas of the curriculum, and the need to add new offerings in emerging areas of the trade. New equipment has been added that should help with the curriculum changes. However, there is still need to upgrade in certain areas of the trade.

- All classes in the Welding program are offered in combined sections. Three to four different classes are offered during the same period. When one class is receiving lecture material, the other two or three classes are working in the lab without direct instructor help. In order to make the combined sections work more effectively, a lab aide position should be added to every class period.
- A larger supply budget is needed to offset the increase in student load and the dramatic inflationary increase in supply costs.
- Upgrade of two of the Gas Tungsten Arc Welding machines to pulse units would allow courses to include pulse techniques.
- > A Friday class section could increase the use of the lab space.

Program Review 2007-08 WELDING TOPs: 0956.50

Career Technical Education Division 11

		03-04	04-05	05-06	06-07	07-08
FTES	Summer	8.16	5.59	6.39	6.78	5.74
GENERATED	Fall	42.52	33.03	28.63	33.59	35.94
GENERATED	Spring	45.11	36.67	36.24	35.29	36.00
	TOTAL	95.79	75.29	71.26	75.66	77.68
Growth/Decline [(Yr2-Yr1),		25%	-21%	-5%	6%	3%
	-	2070	2170	070	0.0	070
	Summer	593	406	442	470	398
LOAD	Growth/Decline	17%	-32%	9%	6%	-15%
(WSCH/FTE)	Fall	642	521	452	531	568
	Spring	681	541	535	521	531
	F, Fall & Spring	662	531	494	526	550
Growth/Decline [(Yr2-Yr1),	/YFI]	16%	-20%	-7%	7%	4%
	Summer	74	FO	47	45	FO
	Summer	74 160	58 110	67 102	65 118	59
ENROLLMENT	Fall					124
	Spring	164 398	132 300	149 318	134 317	144 327
Growth/Decline [(Yr2-Yr1),	TOTAL Nr11	49%	-25%	6%	0%	327
		49%	-25%	0%	0%	3%
	Summer	4	4	4	4	5
NUMBER OF	Fall	15	14	13	14	14
SECTIONS	Spring	15	14	15	15	15
520110113	TOTAL	34	32	32	33	34
Growth/Decline [(Yr2-Yr1),	/Yr1]	10%	-6%	0%	3%	3%
	-					
	Summer	0.413	0.413	0.433	0.433	0.433
FTEF	Fall	1.987	1.900	1.900	1.900	1.900
	Spring	1.987	2.033	2.033	2.033	2.033
PERCENT	Summer	103%	81%	93%	135%	96%
FILL	Fall	108%	109%	98%	121%	129%
(1st cen/max enroll)	Spring	108%	89%	118%	111%	122%
AVERAG	E, Fall & Spring	108%	99%	108%	116%	126%
PERCENT	Summer	74%	79%	69%	97%	97%
RETENTION	Fall	74%	79% 96%	82%	84%	97% 81%
(EOS/1st cen)	Spring	86%	90 <i>%</i> 86%	82%	84%	79%
	E, Fall & Spring	81%	91%	82%	84%	80%
	, , , , , , , , , , , , , , , , , , , ,	0170	, 1, 0	0270	01/0	0070
APPORTIONMENT						
INCOME		\$334,786	\$262,310	\$300,860	\$330,407	\$339,229
(FTES * Annual Factor)		,,	,	,	,	
(
	İ					
EXPENSE	Salaries	\$142,787	\$134,018	\$149,861	\$161,410	
	Materials	\$30,983	\$21,691	\$17,658	\$32,660	
	Capital Outlay	\$30,799	\$0	\$36,453	\$0	
	Total Direct	\$204,569	\$155,709	\$203,972	\$194,070	
Indire	ect (Direct * .40)	\$81,828	\$62,284	\$81,589	\$77,628	
	TOTAL	\$286,397	\$217,993	\$285,560	\$271,698	\$0
		¢0.000	¢0.005	# 4 007	¢0 504	<i>*</i> ~
COST/FTES Growth/Decline ((Yr2-Yr1))	/Vr11	\$2,990	\$2,895	\$4,007	\$3,591	\$0
	(111]	-10%	-3%	38%	-10%	-100%

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008

Program Review 2007-08 WELDING TOPs: 0956.50 & 0956.51

Career Technical Education Division 11 Year: 2007-08

		White,	African-			Other,	
Summer		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	Α	10	3	5	0	4	22
	В	8	1	3	0	1	13
	С	0	0	0	2	2	4
	D F	0	0 0	0 0	0 0		0 0
	CR	0	0	0	0		0
	NC	0	0	0	0		0
	W	2	1	0	0		3
	AL #	20	5	8	2	7	42
% Successful *		90% White,	80% African-	100%	100%	100% Other,	93%
Fall		non-Hispanic	American	Lliononio	Ellinin e	non-white	Total #
Fall Grades *	٨٢	10 10		Hispanic 4	Filipino 2		Total # 19
Graues	A B	10	2 1	4	2	1	19
	C	.2	1	1	0	1	10
	D	3	1	0	0		4
	F	1	3	1	0		5
	CR	0	0	0	0		0
	NC W	0	0 0	0 1	0		0 3
TOTA		35	8	9	3	3	58
% Successful *		83%	50%	78%	100%	100%	79%
		White,	African-			Other,	
<u>Spring</u>		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	Α	23	2	8	0	6	39
	В	9	3	3	0	2	17
	С	12	1	4	1		18 2
	D F	1	ן ז	2	0 0	1	3
	CR	0	2	2	0	I I	0
	NC	0	0	0	0		0
	W	11	3	0	4	2	20
TOTA	AL #	57	12	18	5	11	103
% Successful *		77%	50%	83%	20%	73%	72%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 WELDING TOPs: 0956.50 & 0956.51

Career Technical Education Division 11 Year: 2007-08

Summer	F	М	<u>U</u>	<u>ESL</u>	Non-ESL	U
Grades * A	2	20		2	20	
В	2	11		1	12	
C	1 0	3 0		0	4	
F	0	0		0	0	
CR	0	0		0	0	
NC	0	0		0	0	
W TOTAL #	2	35	(0	3	0
% Successful *	71%	97%	0%	100%	92%	0%
<u>Fall</u>	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades * A	2	17		1	18	
В	2	15		1	16 10	
C	0 1	10 3		0	10 4	
F	2	3		0	5	
CR	0	0		0	0	
NC W	0	0		0	0	
TOTAL #	8	2 50	(0	3 56	0
% Successful *	50%	84%	0%	100%	79%	0%
<u>Spring</u>	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades * A	3	36		0	39	
B	0 2	17 16		1	16 17	
D	2	3		1	2	
F	2	4		0	6	
CR	0	0		0	0	
NC W	0	0 20		0	0 18	
TOTAL #	0	20 96	(2	98	0
% Successful *	71%	72%	0%	40%	73%	0%

*Includes duplicate counts.

8/29/2008

APPENDICES

No narratives were provided by the Division for the following program worksheets.

CTE Division Data Sheets:

Program Review 2007-08 Career Technical Education DIVISION TOTALS

		03-04	04-05	05-06	06-07	07-08
FTES	Summer	49.22	47.27	76.16	69.06	59.7
GENERATED	Fall	428.61	396.26	433.27	383.85	443.3
	Spring	428.14	417.15	437.23	418.38	440.
	τότΑΪ	905.97	860.68	946.66	871.29	944.0
Growth/Decline [(Yr2-Yr1)/Y	(r1]	-4%	-5%	10%	-8%	8%
	Summer	445	395	464	494	48
LOAD	Growth/Decline	-26%	-11%	17%	6%	-3%
(WSCH/FTE)	Fall	485	481	477	453	4
	Spring	538	493	496	470	4
	ERAGE, Fall & Spring	512	487	487	462	460
Growth/Decline [(Yr2-Yr1)/Y	(r1)	12%	-5%	0%	-5%	0%
	Summer	376	387	615	592	50
ENROLLMENT	Fall	2421	2476	2477	2259	24
	Spring	2467	2365	2359	2363	24
	TOTAL	5264	5228	5451	5214	53
Growth/Decline [(Yr2-Yr1)/Y	(r1]	3%	-1%	4%	-4%	3%
	Summer	17	18	28	24	
NUMBER OF	Fall	131	18	28 165	24 151	1
SECTIONS	Spring	131	140	164	145	14
SECTIONS	TOTAL	281	319	357	320	3
Growth/Decline [(Yr2-Yr1)/Y		0%	14%	12%	-10%	-3%
	Summer	3.320	3.593	4.924	4.192	3.7
FTEF	Fall	26.527	24.700	27.220	25.430	29.3
41	Spring 	23.989	24.962	26.469	26.714 26.072	28.4
AV		25.258	24.831	26.845	20.072	28.8
PERCENT	Summer	76%	77%	95%	104%	72
FILL	Fall	91%	91%	79%	76%	50
(1st cen/max enroll)	Spring	100%	94%	82%	82%	49
AV	ERAGE, Fall & Spring	96%	93%	81%	79%	50%
PERCENT	Summer	82%	80%	83%	84%	82
RETENTION	Fall	83%	86%	83%	82%	81
(EOS/1st cen)	Spring	83%	85%	80%	82%	79
AV	ERAGE, Fall & Spring	83%	86%	82%	82%	80%
APPORTIONMENT						
INCOME		\$3,166,365	\$2,998,609	\$3,996,799	\$3,804,923	\$4,122,7
(FTES * Annual Factor)		+-,,		+ - , ,		+ -, - =, -
EXPENSE	Salaries	\$1,723,176	\$1,727,556	\$2,201,534	\$1,936,910	
	Materials	\$98,997	\$121,062	\$161,052	\$239,924	
	Capital Outlay	\$88,341	\$99,659	\$143,683	\$84,771	
	Total Direct	\$1,910,514	\$1,948,277	\$2,506,268	\$2,261,605	
	Indirect (Direct * .40)	\$76,420,560	\$77,931,070	\$100,250,736	\$90,464,192	
ANNUAL	TOTAL	\$78,331,074	\$79,879,347	\$102,757,005	\$92,725,797	
COST/FTES		\$86,461	\$92,810	\$108,547	\$106,424	
rowth/Decline [(Yr2-Yr1)/Y	(r1)	-7%	7%	17%	-2%	-100%

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008

Solano: Research and Planning

Division 11

Program Review 2007-08 Career Technical Education DIVISION TOTALS

Division 11 Year: 2007-08

	White,	African-			Other,	
	non-					
Summer	Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades * A	99	31	30	10	27	197
В	44	15	15	5	9	88
С	16	3	6	6	7	38
D	8	1	2	0	2	13
F	6	3	5	1	3	18
CR	16	9	8	0	4	37
NC	1	0	0	0	1	2
W TOTAL #	24 214	21 83	6 72	23	9 62	61 454
% Successful *	82%	83 70%	82%	23 91%	76%	454 79%
	White,	African-	0270	7170	Other,	1770
	non-					
Fall	Hispanic	American	Llicnonio	Filinino	non-white	Total #
<u>Fall</u>			Hispanic	Filipino		Total #
Grades * A	453 215	123 88	160 107	58 26	94 43	888 479
B	215 110	88 67	107	20 13	43 24	479 280
D	35	25	66 21	8	13	280
F	94	25 66	55	0 14	33	262
CR	15	8	9	1	3	36
NC	3	2	1	0	2	8
W	89	71	48	14	39	261
TOTAL #	1014	450	467	134	251	2316
% Successful *	78%	64%	73%	73%	65%	73%
	White,	African-			Other,	
	non-					
<u>Spring</u>	Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades * A	472	126	152	45	117	916
В	222	90	96	30	60	498
С	99	57	50	13	16	235
D	32	32	18	8	9	99
F	71	61	49	10	17	208
CR	10	11	2	0	2	25
NC	2	1	2	0	0	5
W	135	112	63	25	44	379
TOTAL #	1043	490	432	131	265	2365
% Successful *	77%	58%	69%	67%	74%	71%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 Career Technical Education DIVISION TOTALS

Division 11 Year: 2007-08

Summer	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	U
Grades *	۹9	31	30	10	27	197
E	3 44	15	15	5	9	88
(C 16	3	6	6	7	38
[8 0	1	2 5	0	2	13
	- 6	3		1	3	18
CF	R 16	9	8	0	4	37
NO	C 1	0	0	0	1	2
V	V 24	21	6	1	9	61
TOTAL		83	72	23	62	454
% Successful *	82%	70%	82%	91%	76%	0%
	_					
<u>Fall</u>	<u>F</u>	<u>M</u>	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A 453	123	160	58	94	888
E	3 215	88	107	26	43	479
(67	66	13	24	280
[) 35	25	21	8	13	102
	- 94	66	55	14	33	262
CF		8	9	1	3	36
NO		2	1	0	2	8
V		71	48	14	39	261
TOTAL		450	467	134	251	2316
% Successful *	78%	64%	0%	73%	65%	0%
	_					
Spring	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	U
Grades *	A 472	126	152	45	117	916
E	3 222	90	96	30	60	498
(57	50	13	16	235
[32	32	18	8	9	99
		61	49	10	17	208
CF		11	2 2	0	2	25
NO		1		0	0	5
V		112	63	25	44	379
TOTAL		490	432	131	265	2365
% Successful *	77%	58%	0%	67%	74%	0%

*Includes duplicate counts.

8/29/2008

Air Conditioning & Refrigeration Department Data Sheets:

Program Review 2007-08 AIR CONDITIONING & REFRIGERATION TOP: 0946.00

Career Technical Education Division 11

TOP: 0946.00		03-04	04-05*	05-06	06-07	07-08
FTES	Summer	0.00	0.00	0.00	0.00	0.00
GENERATED	Fall	0.00	0.00	2.42	2.75	3.10
	Spring	0.00	4.70	0.00	3.63	2.75
	TOTAL	0.00	4.70	2.42	6.38	5.85
Growth/Decline [(Yr2-Yr1)/Yr1]	/	N/A	N/A	-49%	164%	-8%
	Summer	0	0	0	0	C
LOAD	Growth/Decline	N/A	N/A	N/A	N/A	N/A
(WSCH/FTE)	Fall	0	0	363	413	465
	Spring	0	353	0	545	413
Growth/Decline [(Yr2-Yr1)/Yr1]	AVERAGE, Fall & Spring	N/A N/A	177 N/A	182 3%	479 164%	439 -8%
	, 	N/A	IN/A	370	10470	-0 70
	Summer	0	0	0	0	0
ENROLLMENT	Fall	0	0	22	25	31
	Spring	0	47	0	33	25
	TOTAL	0	47	22	58	56
Growth/Decline [(Yr2-Yr1)/Yr1]	/	N/A	N/A	-53%	164%	-3%
	Summer	0	0	0	0	0
NUMBER OF	Fall	0	0	2	3	1
SECTIONS	Spring	0	2	2	1	1
020110110	TOTAL	0	2	4	4	2
Growth/Decline [(Yr2-Yr1)/Yr1]		N/A	N/A	100%	0%	-50%
	Summer	0.000	0.000	0.000	0.000	0.000
FTEF	Fall	0.000	0.000	0.200		0.200
	Spring	0.000	0.400	0.000	0.200	0.200
PERCENT	Summer	0%	0%	0%	0%	0%
FILL	Fall	0%	70%	55%	63%	103%
(1st cen/max enroll)	Spring	0%	59%	0%	83%	63%
	AVERAGE, Fall & Spring	N/A	65%	28%	73%	83%
PERCENT	Summer	0%	0%	0%	0%	0%
RETENTION	Fall	0%	96%	82%	100%	87%
(EOS/1st cen)	Spring	0%	66%	0%	67%	68%
(AVERAGE, Fall & Spring	N/A	81%	41%	84%	78%
APPORTIONMENT INCOME (FTES * Annual Factor)		\$0	\$16,375	\$10,217	\$27,861	\$25,547
EXPENSE	Salaries	\$0	\$7,453	\$3,931	\$4,502	
-	Materials	\$0	\$0	\$0	\$0	
	Capital Outlay	\$0	\$0	\$0	\$0	
	Total Direct	\$0	\$7,453	\$3,931	\$4,502	
	Indirect (Direct * .40)	\$0	\$2,981	\$1,573	\$1,801	
	TOTAL	\$0	\$10,434	\$5,504	\$6,303	\$C
ANNUAL			ACC C2	¢0.074	\$000	¢r
COST/FTES Growth/Decline /(Yr2-Yr1)/Yr1	7	0%	\$2,220 #DIV/0!	\$2,274 2%	\$988 -57%	\$C -100%

Prior to AY98-99 expense does not include capital outlay or VEA funds.

* Combined with Industrial Technology (TOP 0937.00) until 2005

8/29/2008

Program Review 2007-08 AIR CONDITIONING & REFRIGERATION TOPs: 0946.00

		White,	African-			Other,	
<u>Summer</u>		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	Α	0	0	0	0	0	0
	В	0	0	0	0	0	0
	С	0	0	0	0	0	0
	D F	0 0	0 0	0 0	0 0	0 0	0 0
	CR	0	0	0	0	0	0
	NC	0	0	0	0	0	0
	W	0	0	0	0	0	0
	TAL #	0	0	0	0	0	0
% Successful *		0%	0%	0%	0%	0%	0%
		White,	African-			Other,	
<u>Fall</u>		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	А	10	2	2	1	4	19
	В	0	0	0	0	0	0
	С	3	3	1	1	0	8
	D F	0 0	0 0	0 0	0 0	0 0	0 0
	CR	0	0	0	0	0	0
	NC	0	0	0	0	0	0
	W	1	0	0	0	0	1
	TAL #	14	5	3	2	4	28
% Successful *		93%	100%	100%	100%	100%	96%
		White,	African-			Other,	
<u>Spring</u>	-	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A	6	2	3	0	1	16
	B	0	0	0	0	0	0
	C D	0 0	1	0 0	0 0	0 0	1 0
	F	0	0 0	0	0	0	0
	CR	0	0	0	0	0	0
	NC	0	0	0	0	0	0
	W	4	1	1	0	0	6
	TAL #	10	4	4	0	1	23
% Successful *		60%	75%	75%	0%	100%	74%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 AIR CONDITIONING & REFRIGERATION TOPs: 0946.00

<u>Summer</u>	<u> </u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A	0 0		0	0	
	B C	0 0		0	0 0	
	D	0 0		0	0	
	F CR			0	0 0	
	NC	0 0		0	0	
ΤΟΤΑ	W	0 0		0	0	0
% Successful *	0%	0%	0%	0%	0%	0%
Fall	<u> </u>	<u>M</u>	<u>U</u>	ESL	Non-ESL	<u>U</u>
Grades *	A B	0 19 0 0		0	18 0	
	С	0 8		1	7	
	D F	0 0		0	0 0	
	CR	0 0		0	0	
	NC W	0 C 0 1		0	0	
ΤΟΤΑ		0 28	0	-	26	0
% Successful *	0%	96%	0%	100%	96%	0%
Carina	-	5.4		FCI	Non ESI	
<u>Spring</u> Grades *	<u>Е</u>	<u>M</u> 0 16	<u>U</u>	<u>ESL</u> 1	Non-ESL 15	<u>U</u>
	В	0 0		0	0	
	C D	0 1 0 0		0	1 0	
	F	0 0		0	0	
	CR	0 0		0	0	
	NC W	0 0 0 6		0	0 6	
ТОТА	L#	0 23	0	1	22	
% Successful *	0%	74%	0%	100%	73%	0%

*Includes duplicate counts.

8/29/2008

Program Review 2007-08 AUTOMOTIVE BODY & RE				Career	Technical E Di	ivision 11
TOPs: 0949.00		03-04	04-05	05-06	06-07	07-08
FTES	Summer	0.00	0.00	0.00	0.00	0.0
GENERATED	Fall	19.85	19.18	23.68	22.79	21.9
	Spring	21.19	23.35	23.33	23.51	21.0
	TOTAL	41.04	42.53	47.01	46.30	43.00
Growth/Decline [(Yr2-Yr1)/Yr1]		6%	4%	11%	-2%	-7%
	C.					
	Summer	0	0	0	0	0
LOAD	Growth/Decline	N/A	N/A	N/A	N/A	N/A
(WSCH/FTE)	Fall	596	576	710	684	66
	Spring	636	701	700	705	63
Growth/Decline /(Yr2-Yr1)/Yr1]	GE, Fall & Spring	616	639	705	695	645
		11%	4%	10%	-1%	-7%
	Summer	0	0	0	0	(
	Summer	32	-	-	-	
ENROLLMENT	Fall	32	31	37 35	36 36	33
	Spring TOTAL	34 66	38 69	35 72	36 72	
Growth/Decline [(Yr2-Yr1)/Yr1]	TUTAL	14%	5%	4%	0%	-8%
		1470	578	4 70	078	-070
	Summer	0	0	0	0	(
NUMBER OF	Fall	5	5	5	5	
SECTIONS	Spring	5	5	6	5	
320110113	TOTAL	10	10	11	10	10
Growth/Decline /(Yr2-Yr1)/Yr1]	TOTAL	25%	0%	10%	-9%	0%
		2370	070	1070	770	070
	Summer	0.000	0.000	0.000	0.000	0.000
FTEF	Fall	1.000	1.000	1.000	1.000	1.000
1 121	Spring	1.100	1.000	1.000	1.000	1.000
	Spring	1.100	1.000	1.000	1.000	1.000
PERCENT	Summer	0%	0%	0%	0%	0%
FILL	Fall	128%	124%	148%	144%	132%
(1st cen/max enroll)	Spring	142%	158%	146%	150%	137%
	GE, Fall & Spring	135%	141%	147%	147%	135%
		10070				10070
PERCENT	Summer	0%	0%	0%	0%	0%
RETENTION	Fall	88%	100%	84%	78%	89%
(EOS/1st cen)	Spring	94%	89%	86%	78%	91%
	GE, Fall & Spring	91%	95%	85%	78%	90%
APPORTIONMENT						
INCOME		\$143,435	\$148,175	\$198,476	\$202,192	\$187,781
(FTES * Annual Factor)						
			i			
EXPENSE	Salaries	\$79,078	\$83,264	\$88,787	\$88,906	
	Materials	\$10,483	\$12,729	\$7,701	\$8,764	
	Capital Outlay	\$0	\$3,610	\$25,765	\$3,127	
	Total Direct	\$89,561	\$99,603	\$122,252	\$100,797	
Ind	irect (Direct *.40)	\$35,824	\$39,841	\$48,901	\$40,319	
	TOTAL	\$125,385	\$139,444	\$171,153	\$141,116	\$(
ANNUAL						
COST/FTES		\$3,055	\$3,279	\$3,641	\$3,048	\$(
Growth/Decline [(Yr2-Yr1)/Yr1]		-9%	7%	11%	-16%	-100%
Prior to AY98-99 expense does n	ot include capital ou	tlay or VEA fur	nds.			
8/29/2008						

Automotive Department Data Sheets:

Program Review 2007-08 AUTOMOTIVE BODY & REPAIR TOPs: 0949.00

Career Technical Education Division 11 Year: 2007-08

		White,	African-			Other,	
<u>Summer</u>		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	А	0	0	0	0		
	В	0	0	0	0		
	С	0	0	0	0		
	D F	0	0 0	0 0	0		
	CR	0	0	0	0		
	NC	0	0	0	0		
	W	0	0	0	0		
	AL #	0	0	0	0	0	0
% Successful *		0%	0%	0%	0%	0%	0%
		White,	African-			Other,	
<u>Fall</u>		non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A	1	0	0	1		2
	B	3 0	0	2	1	1	6
	C D	2	0 0	8 1	0 0	1	9 3
	F	4	0	2	0	1	5 7
	CR	0	0	0	0		0
	NC	0	0	0	0		0
	W	1	0	4	0		5
	AL #	11	0	17	2	2	32
% Successful *		36%	0%	59%	100%	50%	53%
		White,	African-			Other,	
<u>Spring</u>	r	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A	2	2	1	0	1	5
	B C	0	0	3 1	0 1	1	4
	D	2 0	0 2	0	2	1	4 5
	F	2	2	7	0	1	12
	CR	0	0	0	0		0
	NC	0	0	0	0		0
	W	2	1	0	0		3
	AL #	8	7	12	3	3	33
% Successful *		50%	29%	42%	33%	33%	39%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 **AUTOMOTIVE BODY & REPAIR** TOPs: 0949.00

Career Technical Education Division 11 Year: 2007-08

Summer	F	М	<u>U</u>	ESL	Non-ESL	U
Grades *	4 <u>0</u>	0		0		
	3 0	0		0	0	
)	-	0		0	0	
	- 0	0		0	0	
CI		0		0	0	
No V		0		0	0	
TOTAL		0			Ű	0
% Successful *	0%	0%	0%	0%	0%	0%
<u>Fall</u>	<u><u> </u></u>	<u>M</u>	<u>U</u>	ESL	Non-ESL	<u>U</u>
	A 0 3 0	2		0		
(8		4	5	
[3		1	2	
CI	- 0	7		1	6	
N		0		0	0	
V	V 0	5		1	4	
TOTAL		31	(25	0
% Successful *	100%	52%	0%	57%	52%	0%
<u>Spring</u>	F	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
	4 <u>0</u>	<u>1VI</u> 5		0		<u>U</u>
	3 0	4		2	2	
(4		1	3	
[5 11		1	4	
CI		0		4	8 0	
N	0	0		0	0	
V		3		0		
TOTAL *	# 1 0%	32 41%	(0%	0 8 38%	25 40%	0%
70 3000033101	070	11/0	070	3070	U/U	070

*Includes duplicate counts.

8/29/2008

Program Review 2007-08 AUTOMOTIVE MECHANICS & TECHNICIAN TOPs: 0948.00

Career Technical Education Division 11

10F3. 0746.00		03-04	04-05	05-06	06-07	07-08
FTES	Summer	0.00	0.00	0.00	0.00	0.00
GENERATED	Fall					
	Spring	0.00				
	TOTAL	0.00	0.00	0.00	0.00	0.00
Growth/Decline [(Yr2-Yr1)/Yi	r1]	-100%	N/A	N/A	N/A	N/A
	Summer	0	0	0	0	0
LOAD	Growth/Decline	-100%	N/A	N/A	N/A	N/A
(WSCH/FTE)	Fall				0	
	Spring AVERAGE, Fall & Spring	0 N/A	0 N/A	0 N/A	0 N/A	N/A
Growth/Decline [(Yr2-Yr1)/Yi	r1]	N/A	N/A	N/A	N/A	N/A
	Summer	0		0	0	
ENROLLMENT	Fall		-		-	
	Spring <i>TOTAL</i>	0			0	
Growth/Decline [(Yr2-Yr1)/Yi	r1]	-100%	N/A	N/A	N/A	N/A
	Summer			0	0	
NUMBER OF	Fall			-	-	
SECTIONS	Spring <i>TOTAL</i>	0		0	0	-
Growth/Decline [(Yr2-Yr1)/Yi	r1]	-100%	N/A	N/A	N/A	N/A
	Summer					
FTEF	Fall					
	Spring	0.000	0.000	0.000	0.000	0.000
PERCENT	Summer	0%	0%	0%	0%	0%
FILL	Fall	0%	0%	0%		
(1st cen/max enroll)	Spring		0%	0%		
	AVERAGE, Fall & Spring	N/A	N/A	N/A	N/A	N/A
PERCENT	Summer	0%	0%	0%	0%	0%
RETENTION	Fall	0%	0%	0%	0%	
(EOS/1st cen)	Spring	0%				
	AVERAGE, Fall & Spring	N/A	N/A	N/A	N/A	N/A
APPORTIONMENT						
INCOME		\$0	\$0	\$0	\$0	\$0
(FTES * Annual Factor)						
EXPENSE	Salaries					
	Materials	\$0				
	Capital Outlay	\$0				
	Total Direct	\$0 \$0				
	Indirect (Direct * .40) TOTAL	\$0 \$0			\$0 \$0	
ANNUAL	TOTAL	ψU	ψU	ψŪ	ψŪ	ψ
COST/FTES		N/A	N/A	N/A	N/A	N/A
Growth/Decline [(Yr2-Yr1)/Yi	r1]	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008

Program Review 2007-08 AUTOMOTIVE MECHANICS & TECHNICIAN TOPs: 0948.00

Career Technical Education Division 11 Year: 2007-08

	White,	African-			Other,	
<u>Summer</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A 0	0	0	0	0	0
	B 0	0	0	0	0	0
	C 0	0	0	0	0	0
	D 0 F 0	0	0	0	0	0
(F 0 R 0	0 0	0 0	0 0	0 0	0 0
	IC 0	0	0	0	0	0
	W 0	0	0	0	0	0
TOTAL		0	0	0	0	0
% Successful *	0%	0%	0%	0%	0%	0%
	White,	African-			Other,	
<u>Fall</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A 0	0	0	0	0	0
	B 0	0	0	0	0	0
	C 0	0	0	0	0	0
	D 0 F 0	0	0 0	0	0	0
	R 0	0	0	0	0	0
		0	0	0	0	0
	W 0	0	0	0	0	0
TOTAL		0	0	0		0
% Successful *	0%	0%	0%	0%	0%	0%
	White,	African-			Other,	
<u>Spring</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A 0	0	0	0	0	0
	B 0	0	0	0	0	0
	C 0	0	0	0	0	0
	D 0 F 0	0	0	0	0	0 0
(F 0 R 0	0 0	0 0	0 0	0	0
		0	0	0	0	0
	W 0	0	0	0	0	0
TOTAL	-	0	0	0	0	0
% Successful *	0%	0%	0%	0%	0%	0%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 AUTOMOTIVE MECHANICS & TECHNICIAN TOPs: 0948.00

Career Technical Education Division 11 Year: 2007-08

6	F			FOL		
Summer	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades * A	0	0		0		
В	0	0		0		
С	0	0		0		
D	0	0		0		
F	0	0		0		
CR	0	0		0	0	
NC	0	0		0		
W	0	0		0		
TOTAL #	0	0	0	0		0
% Successful *	0%	0%	0%	0%	0%	0%
<u>Fall</u>	<u>F</u>	M	<u>U</u>	ESL	Non-ESL	<u>U</u>
Grades * A	0	0		0	0	
В	0	0		0	0	
С	0	0		0	0	
D	0	0		0	0	
F	0	0		0	0	
CR	0	0		0	0	
NC	0	0		0	0	
W	0	0		0	0	
TOTAL #	0	0	0	0		0
% Successful *	0%	0%	0%	0%	0%	0%
<u>Spring</u>	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades * A	0	0		0	0	
В	0	0		0	0	
С	0	0		0	0	
D	0	0		0		
F	0	0		0		
CR	0	0		0		
NC	0	0		0		
W	0	0		0		
TOTAL #	0	0	0	0		
% Successful *	0%	0%	0%	0%	0%	0%

*Includes duplicate counts.

8/29/2008

Water & Wastewater Department Data Sheets:

Program Review 2007-08

Career Technical Education Division 11

WATER & WASTEWATER (Sanitation and Public Health) TOPs: 0958.00

TOPS: 0956.00		03-04	04-05	05-06	06-07	07-08
FTES	Summer	0.00	0.00	0.00	0.00	0.00
GENERATED	Fall	8.97	6.16	7.38	3.40	8.43
	Spring	10.20	3.43	2.40	11.33	12.15
	TOTAĽ	19.17	9.59	9.78	14.73	20.58
Growth/Decline [(Yr2-Yr1)/Yr1]		41%	-50%	2%	51%	40%
	Summer	0	0	0	0	0
LOAD	Growth/Decline	N/A	N/A	N/A	N/A	N/A
(WSCH/FTE)	Fall	576	462	428	382	542
	Spring	574	258	270	434	475
	AGE, Fall & Spring	575	360	349	408	509
Growth/Decline [(Yr2-Yr1)/Yr1]		28%	-37%	-3%	17%	25%
	Summer	0	0	0	0	0
ENROLLMENT	Summer Fall	0 72	0 60	0 53	0 24	0 73
ENROLLMENT	Spring	72	33	18	85	87
	TOTAL	146	93	71	109	160
Growth/Decline [(Yr2-Yr1)/Yr1]		36%	-36%	-24%	54%	47%
	Summer	0	0	0	0	0
NUMBER OF	Fall	2	2	2	1	2
SECTIONS	Spring	2	2	3	3	3
Growth/Decline [(Yr2-Yr1)/Yr1]	TOTAL	4	4	25%	-20%	25%
		070	070	2370	2070	2370
	Summer	0.000	0.000	0.000	0.000	0.000
FTEF	Fall	0.467	0.400	0.517	0.267	0.467
	Spring	0.533	0.400	0.267	0.784	0.767
DEDOENT	Summer	09/	09/	09/	09/	00/
PERCENT FILL	Summer Fall	0% 120%	0% 100%	0% 88%	0% 80%	0% 91%
(1st cen/max enroll)	Spring	120%	55%	60%	80 <i>%</i> 94%	88%
	RAGE, Fall & Spring	122%	78%	74%	87%	90%
PERCENT	Summer	0%	0%	0%	0%	0%
RETENTION	Fall	69%	70%	57%	63%	91%
(EOS/1st cen)	Spring RAGE, Fall & Spring	73% 71%	70% 70%	72% 65%	84% 74%	81% 86%
		7170	7078	0578	7470	0070
APPORTIONMENT						
INCOME		\$66,999	\$33,412	\$41,291	\$64,326	\$89,873
(FTES * Annual Factor)						
EXPENSE	Salaries	\$12,740	\$11,164	\$13,396	\$12,362	
LAF LINGL	Materials	\$12,740 \$0	\$11,104 \$0	\$13,390 \$0	\$12,302	
	Capital Outlay	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
	Total Direct	\$12,740	\$11,164	\$13,396	\$12,362	
I	ndirect (Direct * .40)	\$5,096	\$4,466	\$5,358	\$4,945	
	TOTAL	\$17,836	\$15,630	\$18,754	\$17,307	\$0
ANNUAL					.	
COST/FTES		\$930	\$1,630	\$1,918	\$1,175	\$0
Growth/Decline [(Yr2-Yr1)/Yr1] Prior to AY98-99 expense does n		-33%	75%	18%	-39%	-100%

Prior to AY98-99 expense does not include capital outlay or VEA funds.

8/29/2008

Program Review 2007-08 WATER & WASTEWATER (Sanitation and Public Health) TOPs: 0958.00

Career Technical Education Division 11 Year: 2007-08

	White,	African-			Other,	
<u>Summer</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A 0	0	0	0	0	0
	В 0	0	0	0	0	0
	C 0	0	0	0	0	0
	D 0	0	0	0	0	0
	F 0	0	0	0	0	0
	CR 0	0	0	0	0	0
	IC 0 W 0	0	0	0	0	0
		0	0 0	0	0	0
TOTAL % Successful *	0%	0%	0%	0%	0%	0%
	White,	African-	070	070	Other,	070
<u>Fall</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A 33	2	11	2	11	59
	B 16	3	5	3	4	31
	C 8	4	0	1	3	16
	D 1	2	2	2	0	7
	F 3	1	0	0	0	4
	CR 0 IC 0	0 0	0	0	0 0	0
	W 1	2	0	0	0	5
τοται		14	20	8	18	122
% Successful *	92%	64%	80%	75%	100%	87%
	White,	African-	00/0		Other,	0110
<u>Spring</u>	non-Hispanic	American	Hispanic	Filipino	non-white	Total #
Grades *	A 50	2	11	4	11	78
	B 18	4	8	0	5	35
	C 7	2	2	0	1	12
	D 0	2	1	0		3
	F 1	0	0	0		1
	CR 0	0	0	0		0
	IC 0	0	0	0		0
	W 8	2	1	1	3	15
TOTAL % Successful *	. # 84 89%	12 67%	23 91%	5	20 85%	144 87%
% Successiui	07%	01%	7 1%	80%	ŏ0%	ŏ/%

* Includes duplicate counts.

8/29/2008

Program Review 2007-08 WATER & WASTEWATER (Sanitation and Public Health) TOPs: 0958.00

<u>Summer</u>	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *		0 (0	0	
	В (0	0	
	С (0	0	
	-	0 0		0	0	
	F (CR (0	0 0	
	NC (0	0	
	W	-		0	0	
TOTA) 0	0	0	0	0
% Successful *	0%	0%	0%	0%	0%	0%
Fall	F	M	<u>U</u>	<u>ESL</u>	Non-ESL	U
Grades *	A 14			1	58	
		2 29		0	31	
	C 2	2 14		0	16	
		3 4		0	7	
) 4		0	4	
	CR (NC (0	0 0	
	W	1 4		0	5	
ΤΟΤΑ		2 100	0	-	121	0
% Successful *	82%	88%	0%	100%	87%	0%
	-				-	
<u>Spring</u>	<u>F</u>	M	<u>U</u>	<u>ESL</u>	Non-ESL	<u>U</u>
Grades *	A 14			3	75	
	B	2 33		0	35	
	C	5 7		1	11	
	D ć			0	3	
	F (CR (· ·		0 0	1	
	NC (0	0	
	W			1	14	
ΤΟΤΑ			0		139	0
% Successful *	88%	87%	0%	80%	87%	0%

*Includes duplicate counts.

8/29/2008