



# FULLERTON COLLEGE

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## Two-Year Program Review Template Academic Programs

Printing Technology

Technology and Engineering

### Statement of Collaboration

The program faculty listed below collaborated in an open and forthright dialogue to prepare this Program Review. Statements included herein accurately reflect the conclusions and opinions of the program faculty.

### Participants in the review

Dennis Howey, Department Coordinator

Nancy Rennie, Adjunct Instructor

Glenn Heurth, Adjunct Instructor

Sam Karaba, , Adjunct Instructor

Wilson Wong, Adjunct Instructor

David Mc Cormac, Adjunct Instructor

### Authorization

After the document is complete, it must be signed by the Department Coordinator and Dean prior to submission to the Program Review Committee.

Signature of Department Coordinator

Handwritten signature of Dennis Howey in cursive.

Signature of Dean

Handwritten signature of Scott McFie in cursive.

Date of Submission

12-12-11

## 1.0 Mission and Goals

Briefly describe the relationship of your program to the college's Mission, Vision, Core Values, and College Goals.

The coursework in the printing technology program provides theory and laboratory experiences that simulate live production in a commercial printing work environment. The printing programs are designed to prepare students for an entry level position in the printing field or provide skill upgrading for students currently employed in the printing industry.

## 2.0 Program Data and Trends Analysis

### 2.1 *Key Performance Indicators (KPI)*

For each KPI listed below, summarize the trend. (Attach 5-year longitudinal data to appendix.)

KPI	Trend
Enrollment	There has been a slight overall increase in enrollment, even though there has been less courses offered.
Total FTES	There has been a slight increase.
Sections	There has been a significant decline of course offerings.
FTEF	There has been a significant increase.
Fill Rate	There has been a significant increase, from 67% to 81%.
WSCH/FTEF	There has been fluctuation up and down, but is holding steady.
Retention	There has been a steady retention rate averaging 82%.
Success	There has been some fluctuation with an average of 74%.

### 2.2 *Ranking of Department*

How does your program compare with peers? (Peers include similar programs at the college or programs at peer institutions as identified by the Office of Institutional Research)

Retention – the printing technology retention rates are slightly lower than the other areas surveyed within the Technology and Engineering division. Our printing program showed slightly lower percentages, when compared to other similar printing programs in the state. (Data sheets attached).

Success - the printing technology success rates are slightly higher than the other industrial technology programs surveyed within the Technology and Engineering division. Our printing program showed significantly higher percentages, when compared to other similar printing programs in the state. (Data sheets attached).

Degrees Awarded - the printing technology degrees awarded are similar to the other industrial technology programs surveyed within the Technology and Engineering division. Our printing program showed a higher number of degrees, when compared to other similar printing programs in the state. (Data sheets attached).

Certificates Awarded - the printing technology certificates issued are slightly lower than the other industrial technology programs surveyed within the Technology and Engineering division. Our printing program showed higher number of certificates, when compared to other similar printing programs in

the state. The printing department has emphasized providing students with the opportunity to obtain industry certification for its students. The printing department issues significantly higher numbers of industry certification compared the other printing programs in the state, based on information from the Printing Industries of America and the Flexographic Technical Foundation. It is the opinion of the printing department faculty and the printing advisory board, that students achieve industry certification over certificates offered by the college. Certificates issued from the Printing Industries of America and the Flexographic Foundation requires a score of 80 percent on a certification exam and is recognized around the world. (Data sheets attached).

Transfers – there was no transfer information found.

**2.3 Achievement Gap**

Indicate achievement gap for each of the groups listed below. (Attach to Appendix the Success and Retention by Ethnicity Data as identified by the Office of Institutional Research.)

Group	% Retention	% Success
Males	Sp 2011 – 82.2%, Fall 2010 – 83%	Sp 2011 – 73.7%, Fall 2010 – 83%
Females	Sp 2011 – 75.6%, Fall 2010 – 85%	Sp 2011 – 70.7%, Fall 2010 – 85%
Asian-American	Sp 2011 – 86.7%, Fall 2010 – 89%	Sp 2011 – 86%, Fall 2010 – 89%
African-American	Sp 2011 – 20%, Fall 2010 – 71.4%	Sp 2011 – 20%, Fall 2010 – 28.6%
Filipino	Sp 2011 – 100%, Fall 2010 – 100%	Sp 2011 – 100%, Fall 2010 – 100%
Hispanic	Sp 2011 – 85.7%, Fall 2010 – 81%	Sp 2011 – 78.6%, Fall 2010 – 65.6%
Native American	Fall 2010 – 100%	Fall 2010 – 100%
Other Non-White		
Pacific Islander		
White	Sp 2011 – 75%, Fall 2010 – 85%	Sp 2011 – 66%, Fall 2010 – 81%
Unknown		
Range (Max-Min)	100% - 20%	100% - 20%

**2.4 Other Data**

Please include any other data (internal or external) that may be relevant to student achievement, learning, and trends within your Basic Skills, CTE, or Transfer Education program.

The students in the printing department achieved industry certification that is recognized around the world from the Printing Industries of America and the Flexographic Technical Foundation.

Listed below are the industry certificates earned:

- Printing Industries of America Pre-press Certification – 2010-2011 – 4 issued
  - Printing Industries of America Pre-press Certification – 2009-2010 – 3 issued
  - Printing Industries of America Sheetfed Offset Press Certification – 2010-2011 – 1 issued
  - Printing Industries of America Sheetfed Offset Press Certification – 2009-2010 – 7 issued
  - Flexographic Technical Foundation - Level 1 Certification – 2010-2011 – 21 issued
  - Flexographic Technical Foundation - Level 2 Certification – 2010-2011 – 7 issued
  - Flexographic Technical Foundation - Level 1 Certification – 2009-2010 – 17 issued
  - Flexographic Technical Foundation - Level 2 Certification – 2009-2010 – 7 issued
- A total of 33 industry certificates issued in 2010-2011 and 34 issued in 2009-2010.

## ***2.5 Strengths, Weaknesses, Opportunities, Threats (SWOT)***

### **2.5.1 What are the strengths of your program as indicated in the above data?**

The printing department has a high success rate through out the program. Students enjoy learning through “hands on” exercises and developing skills using computers and various printing equipment. Our instructors make every effort to provide students the instruction and guidance needed to successfully complete the course. If student attendance is good, they generally will succeed. Many of our students achieve industry certification on our advanced course work. Industry certification requires completion the course and passing the certification exam at 80% or higher. Many of our students achieve industry certification leading to employment in the printing industry. We are providing our students training on state of the art technologies, giving them job skills they can use in any career the choose.

### **2.5.2. What are the weaknesses of your program as indicated in the above data?**

African American and Hispanic students are struggling with successful completion of the printing technology courses. We are not producing many student certificates.

### **2.5.3. What opportunities exist for your program based on the above data?**

We have the opportunity to focus attention on helping our African American and Hispanic students with successful completion of our courses and degree programs. We can provide guidance with the application for certification process and encourage students to apply for certification when they are eligible. We can encourage students who attend printing classes to declare their major as printing. We can research our resources to help students who struggle with coursework and course completion.

### **2.5.4 What threats exist for your program based on the above data?**

The continual reduction of course offerings is making it difficult for students to complete certification and obtain a degree in printing. Not replacing a fulltime position that was lost due to retirement is threatening the printing program. A fulltime instructor is necessary to provide students with the proper training in new technologies that are necessary for successful completion of their courses and degree programs. The printing industry has and will continue to experience extreme changes in the way digital media is produced and marketed. It is important the printing program keep up with the continual change, so that our students will have the current skills necessary for employment in the printing industry and successful placement in our society.

## **3.0 Student Learning Outcomes Assessment**

### **3.1 What percentage of courses have identified SLOs?**

All of the printing classes currently offered in the printing technology programs, have current student learning outcomes completed.

#### **Comment on progress/lack of progress**

Any courses that do not have student learning outcomes completed are in the process of course deletion in curriculum.

### **3.2 What percentage of courses have ongoing SLO Assessment?**

All of the printing classes currently offered in the printing technology programs, have current student learning assessments completed.

Comment on progress/lack of progress:

Any courses that do not have student learning outcomes completed are in the process of course deletion in curriculum.

3.3 How has assessment of course level SLOs led to improvements in student learning and achievement?

It has given instructors in specific courses the opportunity to discuss and compare student achievement, providing a more focused and consistent presentation of course curriculum. It has helped instructional faculty identify the key elements and course objectives for the various printing courses and programs.

3.4 How has assessment of program-level SLOs led to improvements in transfer or certificate/degree awards?

Due to recent evaluation of SLO's, we have not had the opportunity to gather student learning assessment information and determine the impact on student transfer or degree/certificate awards.

3.5 What challenges remain to make course and program level SLOA more effective?

As technology changes in our industry, we continue to be challenged with determining the proper assessment activities that will provide our students with the skills needed to achieve industry certification and employment. Having the proper staff and course offerings to provide our student the chance to obtain the training and skills needed to successfully complete our programs also remains a challenge.

#### **4.0 Evaluation of Progress Toward Previous Goals**

4.1 Evaluate steps taken to achieve goals established in the last program review.

The courses in the printing technology program provide theory and laboratory experiences that simulate live production in a commercial work environment. The printing programs are designed to prepare students for an entry level position in the printing field or provide skill upgrading for students currently employed in the printing industry.

Students have successfully completed various printed products using the offset lithography, screen-printing, flexography, electronic imaging and digital processes. Through these hands on experiences, students have shown improved skill sets. Printing live work on the printing equipment provides students with the opportunity to experience first hand, various printing defects and problems, requiring specific solutions and trouble shooting skills. Implementation of new digital equipment and curriculum provided students with skills and knowledge necessary to produce digital documents. This new technology has provided students with experiences that emulate the current printing industry in the digital sector.

Since the last review the printing department has accomplished many goals toward the implementation of digital printing technologies. Through VTEA grant funding the printing department has implemented the use of new digital equipment into the printing classes and is developing new curriculum for new and existing courses. The instructors have researched new and emerging digital technologies, while implementing new digital equipment and various software programs into the curriculum. The printing technology staff, have successfully converted the program from analog

processes to digital processes. Students are using new, "state of the art" digital equipment and are obtaining skills necessary to gain employment in the printing industry.

4.2 In cases where resources were allocated toward goals, evaluate the efficacy of that spending. The funds used in the "Analog to Digital " grant has been successful implemented to provide the transition from film based processes into a completely digital environment. The purchase of the Ricoh C 901 digital system provides the printing program with the technology to keep current with the "ever evolving" printing industry. Our students are using software programs found in the commercial printing industry and are obtaining the skills needed not only for employment in the printing industry, but for successful employment in almost any field they choose to work in.

## **5.0 Program Goals and Plans**

### ***5.1 Short-term Goals (two year cycle)***

5.1.1 Based on the above data and analyses, identify 2 or more concrete goals, measurable outcomes, and activities that you would anticipate resulting in improvements to the program in the next 2-year cycle.

Goal 1 – Develop new curriculum that will be used to create a new digital imaging course in the printing program, based on the new technology that has been purchased.

Measurable Outcome – The completion of a new digital imaging course that will be added to the printing technology course offerings.

Plan

1. Develop a committee of industry and educational members, with strong backgrounds in digital imaging technologies.
2. Formulate an outline of topics that will be used to develop a digital imaging curriculum.
3. Write a new digital imaging course based on the information collected from the committee and training.
4. Update printing certificates to include digital printing course requirement.

Goal 2 – Implement new digital imaging technologies, made available through the use of the Ricoh C901 digital imaging system.

Measurable Outcome – Learn the theory and operation of the Ricoh C 901 digital imaging system.

Plan

1. Obtain training for all printing faculty on the Ricoh C901 digital imaging system. This training will include system and software operation.
2. Develop exercises and projects that will reinforce the basic theories and operational skills need to provide students with entry-level job skills in the digital imaging segment of the printing industry.
3. Implement exercises and theories into new and existing printing courses.

5.1.2 What specific aspects of these goals can be accomplished without additional financial resources?  
With the recent purchase of the new Ricoh C 901 digital imaging system and continued supply funding for the existing printing program, all of the goals should be accomplished without additional funding.

### ***5.2 Long-term Goals (six year cycle)***

5.2.1 Based on the above data and analyses, identify 2 or more concrete goals, measurable outcomes, and activities that you would anticipate resulting in improvements to the program in the next six years.

Goal 1 – Research and develop new courses and programs that provide students with the skills needed to gain employment in the digital segment of the printing industry.

Measurable Outcome – Implement new instructional theories and projects into the various printing courses offered in the printing department.

#### Plan

1. Attend various conferences and workshop that provide information on evolving digital processes and theories.
2. Continue to establish new resources and re-establish old relationships with commercial printing facilities, Printing Industries of America, high school and college programs.
3. Work with industry experts to develop new curriculum that will be included in the printing technology courses.

Goal 2 – Improve student completion rates and certification.

Measurable Outcome – Measure the number of certificates completed in the printing program and the student completion rates.

#### Plan

1. Encourage students to apply for the various printing certificates they qualify for.
2. Develop new digital imaging certificate.
3. Provide new curriculum.
4. Encourage students to improve attendance in courses.

5.2.2 What specific aspects of these goals can be accomplished without additional financial resources? Improving student awareness and encouragement can be accomplished with out additional resources. Establishing new and existing relationships with the printing industry experts, high school graphics programs and college professors can be accomplished without additional resources.



## 6.0 Requests for Resources

For any specific aspect of a goal listed in 5.0 that would require additional financial resources, complete the form below.

Type of Resource	Requested Amount	Potential Funding Source
Personnel	75,000	NOCCCD
Facilities		
Equipment	50,000	VTEA/grant funding
Supplies	5,000	VTEA/grant funding
Computer Hardware	10,000	VTEA/grant funding
Computer Software	15,000	VTEA/grant funding
Training	3,000	VTEA/grant funding
Other		
Total Requested Amount	158,000	various

### 6.1. Describe the resource request.

Due to the retirement of a full-time instructor and a hiring freeze, we are not able to replace a full-time teaching position. With all of the new equipment and software in the electronic imaging areas in our department, it is imperative to replace the full-time position that was lost due to retirement. Failure to replace this position will have significant negative effects on the printing program. Funding for this position needs to become a priority of the current administration.

The local print industry associations, industry suppliers and local printing facilities have and will continue to be a resource for new equipment, supplies, technical help, certification, job placement, guest lecturers and other program resources. We will need continued recruitment support through programs on and off campus to help build student enrollment. There is a need to educate the counseling staff, providing them with information describing the various career opportunities giving them the knowledge and confidence to refer students into the printing programs. There is a continuing need to update software and equipment to keep current with the trends of the printing industry. The funds needed to purchase new equipment and software should be possible through grant writing and other state and federal funding resources.

### 6.2. What program outcome(s) does the resource request address?

The request will provide additional help to prepare curriculum, programs, instructional direction, and resources for the printing program. This funding will provide students with skills needed to gain employment in the printing industry. They will provide current technology for students to master. These resources will improve student retention, success and certification. The printing program must keep current with the technology used in the printing industry to provide the skills need to help our students obtain employment and continue to be successful learners in institutions of higher learning.

6.3. What measurable outcome(s) will result from filling this resource request?

Improved student retention, success and certificate completion. Having equipment and software current with the printing industry will help students prepare for entry-level positions in the printing industry. Requested resources will provide students coming from the printing industry the ability to upgrade their skills, providing job security and advancement.

## 7.0 Executive Summary

The Printing Technology Program has provided many years of service to the local community and the printing industries of Southern California. We have hundreds of past students working in printing companies throughout Southern California and continue to provide training for current students who plan to have a career in our industry. We provide students with design and print production skills that they can apply to any field or career path they choose.

Our program has seen major changes in the past few years with the construction of new and temporary facilities that have presented many challenges, resulting in a negative impact on the quality and quantity of our ability to offer print training. We have worked hard to transform the instructional program from an analog base (film) to a completely digital workflow in offset and flexographic printing. We have implemented new digital printing systems with current software that reflects the processes and technology currently used in the commercial printing industry. These changes have brought many challenges for faculty: organizing and planning a temporary and new facility, learning new technologies, mastering new equipment and software. Due to budget cuts, our fulltime faculty allotment was cut by fifty percent, due to a retirement. Not replacing the fulltime position during these challenging times has a negative impact on the program. There is a need to bring in a new facility member that has industry experience that can build a new digital program around the new technology.

Due to the budget cuts, our course and section offerings have been reduced creating a reduction of our degree and certificate completions. These external factors have created a unique problem that all vocational programs are suffering from. General education students are enrolling in many printing classes, filling classes before new and existing printing majors can enroll. This is making it difficult for students seeking employment to obtain training in a reasonable time period. This has had a significant impact on our certificate and degree completions. Most students found in our classes, only are interested in elective units, needed to fill out their schedules to provide fulltime status. These students complete one course and leave, making it more difficult to fill advanced printing courses.

Hopefully the state budget will improve in coming years and course offerings will be restored, creating opportunities for student access to all programs. We hope that our fulltime teaching position will be replaced in the coming years, strengthening the outstanding printing program that currently exists. With the support of our current administration, we continue to offer a core of courses that allow students the opportunity to obtain employment, degree and certificate completion. We hope that we will be able to offer more sections in the future to help our students complete our program and obtain employment in a short time period.

Division Deans' Program Review Summary Page

*I concur with the findings contained in this Program Review.*

*I concur with the findings contained in this Program Review with the following exceptions (include a narrative explaining the basis for each exception):*

*Area of exception:*

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*I do not concur with the findings contained in this Program Review (include a narrative exception):*

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Key Performance Indicator	2006-2007					2007-2008					2008-2009					2009-2010					2010-2011				
	Su	Fa	Sp	An	Su	Fa	Sp	An	Su	Fa	Sp	An	Su	Fa	Sp	An	Su	Fa	Sp	An					
Sections Offered	24	23	47	24	26	50	23	23	46	18	19	37	20	18	38										
Day	10	10	20	12	12	24	11	10	21	10	11	21	11	10	21										
Evening/Weekend	14	13	27	12	14	26	12	13	25	8	8	16	9	8	17										
Online	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Short Term	0	0	0	3	3	6	3	3	6	3	3	6	3	3	6										
Courses Offered	15	14	17	14	14	16	14	15	17	10	11	12	11	12	12										
Day	10	10	11	12	12	12	11	10	12	10	11	12	11	11	12										
Evening/Weekend	9	8	10	7	8	11	9	7	11	6	6	6	6	5	6										
Online	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Short Term	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3										
Student Information																									
Majors	49	50	72	55	55	84	41	48	64	36	43	62	37	34	52										
New Majors	16	19	35	26	22	48	8	10	18	12	14	26	13	7	20										
Enrollments	159	165	324	176	182	360	176	172	348	189	179	368	175	173	348										
FTES	31	28	56	31	33	64	28	33	61	33	34	66	30	32	62										
WSCH	934	841	1,775	932	996	1,928	842	1,001	1,843	985	1,006	1,991	891	971	1,861										
Program Resources																									
FTE Faculty	4.2	4.1	8.3	4.3	4.4	8.7	4.4	3.6	7.9	3.9	4.1	8.1	3.9	3.8	7.7										
Personnel																									
Supplies																									
Program Efficiency																									
Ave Section Size	6.6	7.2	6.9	7.4	7.0	7.2	7.7	7.5	7.6	10.5	9.4	9.9	8.8	9.6	9.2										
Fill Rate (Census)	67%	66%	67%	69%	67%	68%	71%	71%	71%	92%	79%	75%	81%	80%	81%										
WSCH per FTEF	223	206	215	215	227	221	193	280	232	251	244	247	228	266	242										
Cost per WSCH																									
Cost Per Major																									
Program Outcomes																									
Course Retention	76%	88%	83%	81%	87%	84%	82%	82%	82%	73%	83%	78%	83%	80%	81%										
Course Success	73%	79%	76%	77%	82%	80%	73%	72%	73%	63%	68%	66%	73%	73%	73%										
New Major Persistence						2			1			0													
Degrees Awarded			13			10			1			8													
Certificates Awarded																									
Transfers			0			3			3			1													

# Spring 2011 Male Female Retention

As of Date/Tin 15-Nov-11 5:46:08

College	Term	Program Type	Gender	Total Enrollme	Retention	Retention Rate(%)
Fresno City		Printing and Li	Female	2	2	100
Fresno City		Printing and Li	Male	20	20	100
Fullerton		Printing and Li	Female	41	31	75.61
Fullerton		Printing and Li	Male	118	97	82.2
Fullerton		Printing and Li	Unknown	4	3	75
Mission		Printing and Li	Female	83	71	85.54
Mission		Printing and Li	Male	106	88	83.02
Mission		Printing and Li	Unknown	4	1	25
Modesto		Printing and Li	Female	26	23	88.46
Modesto		Printing and Li	Male	57	43	75.44
Modesto		Printing and Li	Unknown	8	6	75
Moorpark		Printing and Li	Female	24	24	100
Moorpark		Printing and Li	Male	11	11	100
Palomar		Printing and Li	Female	46	39	84.78
Palomar		Printing and Li	Male	32	25	78.13
Pasadena		Printing and Li	Female	50	41	82
Pasadena		Printing and Li	Male	116	103	88.79
Pasadena		Printing and Li	Unknown	3	3	100
Riverside		Printing and Li	Female	62	59	95.16
Riverside		Printing and Li	Male	112	104	92.86
Saddleback		Printing and Li	Female	17	17	100
Saddleback		Printing and Li	Male	26	26	100
Saddleback		Printing and Li	Unknown	1	1	100
San Francisco		Printing and Li	Female	50	46	92
San Francisco		Printing and Li	Male	49	43	87.76
San Francisco		Printing and Li	Unknown	5	5	100
Solano		Printing and Li	Female	13	11	84.62
Solano		Printing and Li	Male	8	7	87.5
Solano		Printing and Li	Unknown	1	1	100

# Spring 2011 Male/Female Success

As of Date/Tim 15-Nov-11 5:48:48

College	Term	Program Type	Gender	Total Enrollme	Success	Success Rate(%)
Fresno City		Printing and Li	Female	2	2	100
Fresno City		Printing and Li	Male	20	10	50
Fullerton		Printing and Li	Female	41	29	70.73
Fullerton		Printing and Li	Male	118	87	73.73
Fullerton		Printing and Li	Unknown	4	3	75
Mission		Printing and Li	Female	83	56	67.47
Mission		Printing and Li	Male	106	55	51.89
Mission		Printing and Li	Unknown	4	1	25
Modesto		Printing and Li	Female	26	16	61.54
Modesto		Printing and Li	Male	57	30	52.63
Modesto		Printing and Li	Unknown	8	4	50
Moorpark		Printing and Li	Female	24	22	91.67
Moorpark		Printing and Li	Male	11	11	100
Palomar		Printing and Li	Female	46	30	65.22
Palomar		Printing and Li	Male	32	19	59.38
Pasadena		Printing and Li	Female	50	38	76
Pasadena		Printing and Li	Male	116	87	75
Pasadena		Printing and Li	Unknown	3	3	100
Riverside		Printing and Li	Female	62	58	93.55
Riverside		Printing and Li	Male	112	96	85.71
Saddleback		Printing and Li	Female	17	17	100
Saddleback		Printing and Li	Male	26	26	100
Saddleback		Printing and Li	Unknown	1	1	100
San Francisco		Printing and Li	Female	50	44	88
San Francisco		Printing and Li	Male	49	39	79.59
San Francisco		Printing and Li	Unknown	5	5	100
Solano		Printing and Li	Female	13	10	76.92
Solano		Printing and Li	Male	8	4	50
Solano		Printing and Li	Unknown	1	1	100

# Spring 2011 Success

As of Date/Tim 13-Nov-11

5:47:21

College	Term	Program Type	Total Enrollme	Success	Success Rate(%)
Fresno City		Printing and Li	22	12	54.55
Fullerton		Printing and Li	163	119	73.01
Mission		Printing and Li	193	112	58.03
Modesto		Printing and Li	91	50	54.95
Moorpark		Printing and Li	35	33	94.29
Palomar		Printing and Li	78	49	62.82
Pasadena		Printing and Li	169	128	75.74
Riverside		Printing and Li	174	154	88.51
Saddleback		Printing and Li	44	44	100
San Francisco		Printing and Li	104	88	84.62
Solano		Printing and Li	22	15	68.18



# Spring 2010 Retention

As of Date/Tir 13-Nov-11 5:43:12

College	Term	Program Type	Total Enrollment	Retention	Retention Rate(%)
Fresno City		Printing and Li	23	22	95.65
Fullerton		Printing and Li	179	148	82.68
Mission		Printing and Li	193	165	85.49
Modesto		Printing and Li	145	89	61.38
Moorpark		Printing and Li	52	47	90.38
Palomar		Printing and Li	104	75	72.12
Pasadena		Printing and Li	138	123	89.13
Riverside		Printing and Li	141	133	94.33
Saddleback		Printing and Li	62	56	90.32
San Francisco		Printing and Li	89	79	88.76

# Spring 2010 Degrees

As of Date/Tir 13-Nov-11 5:54:31

Program Type: Printing and Lithography

(0936)

College	Year	Award Type	Program Type	Program Code	Award Count
Fresno City	2010-2011	Associate of S	Printing and Li Top code:	093	1
Fresno City	2010-2011	Certificate req	Printing and Li Top code:	093	3
Fullerton	2010-2011	Associate of S	Printing and Li Top code:	093	3
Fullerton	2010-2011	Certificate req	Printing and Li Top code:	093	4
Fullerton	2010-2011	Certificate req	Printing and Li Top code:	093	1
Palomar	2010-2011	Associate of A	Printing and Li Top code:	093	3
Palomar	2010-2011	Certificate req	Printing and Li Top code:	093	3
Pasadena	2010-2011	Certificate req	Printing and Li Top code:	093	6
Riverside	2010-2011	Associate of S	Printing and Li Top code:	093	4
Riverside	2010-2011	Certificate req	Printing and Li Top code:	093	6
Sacramento C	2010-2011	Certificate req	Printing and Li Top code:	093	12
San Francisco	2010-2011	Associate of S	Printing and Li Top code:	093	1
San Francisco	2010-2011	Certificate req	Printing and Li Top code:	093	2

# Spring 2011 Retention

As of Date/Tim 13-Nov-11 5:39:19

College	Term	Program Type	Total Enrollment	Retention	Retention Rate(%)
Fresno City		Printing and Li	22	22	100
Fullerton		Printing and Li	163	131	80.37
Mission		Printing and Li	193	160	82.9
Modesto		Printing and Li	91	72	79.12
Moorpark		Printing and Li	35	35	100
Palomar		Printing and Li	78	64	82.05
Pasadena		Printing and Li	169	147	86.98
Riverside		Printing and Li	174	163	93.68
Saddleback		Printing and Li	44	44	100
San Francisco		Printing and Li	104	94	90.38
Solano		Printing and Li	22	19	86.36

# Spring 2011 Ethnic Success

As of Date/Tim 15-Nov-11 5:49:55

College	Term	Program Type	Ethnicity	Total Enrollme	Success	Success Rate(%)
Fresno City		Printing and Li	African-Americ	5	3	60
Fresno City		Printing and Li	Hispanic	12	6	50
Fresno City		Printing and Li	White Non-His	5	3	60
Fullerton		Printing and Li	African-Americ	5	1	20
Fullerton		Printing and Li	Asian	15	13	86.67
Fullerton		Printing and Li	Filipino	1	1	100
Fullerton		Printing and Li	Hispanic	70	55	78.57
Fullerton		Printing and Li	Pacific Islande	2	2	100
Fullerton		Printing and Li	Unknown	14	10	71.43
Fullerton		Printing and Li	White Non-His	56	37	66.07
Mission		Printing and Li	African-Americ	8	5	62.5
Mission		Printing and Li	Asian	61	33	54.1
Mission		Printing and Li	Filipino	26	15	57.69
Mission		Printing and Li	Hispanic	35	23	65.71
Mission		Printing and Li	Multi-Ethnicity	4	1	25
Mission		Printing and Li	Unknown	19	15	78.95
Mission		Printing and Li	White Non-His	40	20	50
Modesto		Printing and Li	African-Americ	7	1	14.29
Modesto		Printing and Li	Asian	1	1	100
Modesto		Printing and Li	Filipino	2	2	100
Modesto		Printing and Li	Hispanic	42	20	47.62
Modesto		Printing and Li	Multi-Ethnicity	1	0	0
Modesto		Printing and Li	Pacific Islande	1	1	100
Modesto		Printing and Li	Unknown	11	7	63.64
Modesto		Printing and Li	White Non-His	26	18	69.23
Moorpark		Printing and Li	Filipino	2	2	100
Moorpark		Printing and Li	Hispanic	7	7	100
Moorpark		Printing and Li	Multi-Ethnicity	2	2	100
Moorpark		Printing and Li	White Non-His	24	22	91.67
Palomar		Printing and Li	African-Americ	1	1	100
Palomar		Printing and Li	Asian	6	6	100
Palomar		Printing and Li	Filipino	3	1	33.33

Palomar	Printing and Li Hispanic	19	9	47.37
Palomar	Printing and Li Multi-Ethnicity	4	1	25
Palomar	Printing and Li Pacific Islande	2	1	50
Palomar	Printing and Li Unknown	4	3	75
Palomar	Printing and Li White Non-His	39	27	69.23
Pasadena	Printing and Li African-American	7	6	85.71
Pasadena	Printing and Li American Indian	2	2	100
Pasadena	Printing and Li Asian	22	15	68.18
Pasadena	Printing and Li Filipino	8	7	87.5
Pasadena	Printing and Li Hispanic	91	68	74.73
Pasadena	Printing and Li Multi-Ethnicity	4	2	50
Pasadena	Printing and Li Unknown	6	5	83.33
Pasadena	Printing and Li White Non-His	29	23	79.31
Riverside	Printing and Li African-American	12	10	83.33
Riverside	Printing and Li Asian	6	4	66.67
Riverside	Printing and Li Filipino	12	12	100
Riverside	Printing and Li Hispanic	76	68	89.47
Riverside	Printing and Li Multi-Ethnicity	9	9	100
Riverside	Printing and Li Unknown	5	4	80
Riverside	Printing and Li White Non-His	54	47	87.04
Saddleback	Printing and Li African-American	2	2	100
Saddleback	Printing and Li African-American Indian	1	1	100
Saddleback	Printing and Li Asian	1	1	100
Saddleback	Printing and Li Filipino	2	2	100
Saddleback	Printing and Li Hispanic	4	4	100
Saddleback	Printing and Li Multi-Ethnicity	2	2	100
Saddleback	Printing and Li White Non-His	32	32	100
San Francisco	Printing and Li African-American	7	7	100
San Francisco	Printing and Li Asian	18	16	88.89
San Francisco	Printing and Li Filipino	3	3	100
San Francisco	Printing and Li Hispanic	16	15	93.75
San Francisco	Printing and Li Multi-Ethnicity	6	5	83.33
San Francisco	Printing and Li Pacific Islande	1	0	0
San Francisco	Printing and Li Unknown	4	3	75
San Francisco	Printing and Li White Non-His	49	39	79.59

Solano	Printing and Li African-American	1	1	100
Solano	Printing and Li Asian	1	0	0
Solano	Printing and Li Filipino	2	1	50
Solano	Printing and Li Hispanic	5	3	60
Solano	Printing and Li Unknown	5	2	40
Solano	Printing and Li White Non-His	8	8	100

# Spring 2011 Ethnic Retention

As of Date/Tir 15-Nov-11 5:47:24

College	Term	Program Type	Ethnicity	Total Enrollme	Retention	Retention Rate(%)
Fresno City		Printing and Li	African-Americ	5	5	100
Fresno City		Printing and Li	Hispanic	12	12	100
Fresno City		Printing and Li	White Non-His	5	5	100
Fullerton		Printing and Li	African-Americ	5	1	20
Fullerton		Printing and Li	Asian	15	13	86.67
Fullerton		Printing and Li	Filipino	1	1	100
Fullerton		Printing and Li	Hispanic	70	60	85.71
Fullerton		Printing and Li	Pacific Islande	2	2	100
Fullerton		Printing and Li	Unknown	14	12	85.71
Fullerton		Printing and Li	White Non-His	56	42	75
Mission		Printing and Li	African-Americ	8	7	87.5
Mission		Printing and Li	Asian	61	52	85.25
Mission		Printing and Li	Filipino	26	20	76.92
Mission		Printing and Li	Hispanic	35	31	88.57
Mission		Printing and Li	Multi-Ethnicity	4	2	50
Mission		Printing and Li	Unknown	19	16	84.21
Mission		Printing and Li	White Non-His	40	32	80
Modesto		Printing and Li	African-Americ	7	3	42.86
Modesto		Printing and Li	Asian	1	1	100
Modesto		Printing and Li	Filipino	2	2	100
Modesto		Printing and Li	Hispanic	42	35	83.33
Modesto		Printing and Li	Multi-Ethnicity	1	0	0
Modesto		Printing and Li	Pacific Islande	1	1	100
Modesto		Printing and Li	Unknown	11	9	81.82
Modesto		Printing and Li	White Non-His	26	21	80.77
Moorpark		Printing and Li	Filipino	2	2	100
Moorpark		Printing and Li	Hispanic	7	7	100
Moorpark		Printing and Li	Multi-Ethnicity	2	2	100
Moorpark		Printing and Li	White Non-His	24	24	100
Palomar		Printing and Li	African-Americ	1	1	100
Palomar		Printing and Li	Asian	6	6	100
Palomar		Printing and Li	Filipino	3	1	33.33

Palomar	Printing and Li Hispanic	19	14	73.68
Palomar	Printing and Li Multi-Ethnicity	4	4	100
Palomar	Printing and Li Pacific Islande	2	1	50
Palomar	Printing and Li Unknown	4	4	100
Palomar	Printing and Li White Non-His	39	33	84.62
Pasadena	Printing and Li African-American	7	6	85.71
Pasadena	Printing and Li American Indian	2	2	100
Pasadena	Printing and Li Asian	22	16	72.73
Pasadena	Printing and Li Filipino	8	8	100
Pasadena	Printing and Li Hispanic	91	79	86.81
Pasadena	Printing and Li Multi-Ethnicity	4	4	100
Pasadena	Printing and Li Unknown	6	6	100
Pasadena	Printing and Li White Non-His	29	26	89.66
Riverside	Printing and Li African-American	12	12	100
Riverside	Printing and Li Asian	6	4	66.67
Riverside	Printing and Li Filipino	12	12	100
Riverside	Printing and Li Hispanic	76	72	94.74
Riverside	Printing and Li Multi-Ethnicity	9	9	100
Riverside	Printing and Li Unknown	5	4	80
Riverside	Printing and Li White Non-His	54	50	92.59
Saddleback	Printing and Li African-American	2	2	100
Saddleback	Printing and Li American Indian	1	1	100
Saddleback	Printing and Li Asian	1	1	100
Saddleback	Printing and Li Filipino	2	2	100
Saddleback	Printing and Li Hispanic	4	4	100
Saddleback	Printing and Li Multi-Ethnicity	2	2	100
Saddleback	Printing and Li White Non-His	32	32	100
San Francisco	Printing and Li African-American	7	7	100
San Francisco	Printing and Li Asian	18	17	94.44
San Francisco	Printing and Li Filipino	3	3	100
San Francisco	Printing and Li Hispanic	16	15	93.75
San Francisco	Printing and Li Multi-Ethnicity	6	6	100
San Francisco	Printing and Li Pacific Islande	1	0	0
San Francisco	Printing and Li Unknown	4	3	75
San Francisco	Printing and Li White Non-His	49	43	87.76



Solano	Printing and LI African-American	1	1	100
Solano	Printing and LI Asian	1	0	0
Solano	Printing and LI Filipino	2	2	100
Solano	Printing and LI Hispanic	5	4	80
Solano	Printing and LI Unknown	5	4	80
Solano	Printing and LI White Non-His	8	8	100

# Spring 2010 Success

As of Date/Tir 13-Nov-11 5:51:04

College	Term	Program Type	Total Enrollme	Retention	Retention Rate(%)
Fresno City		Printing and Li	23	22	95.65
Fullerton		Printing and Li	179	148	82.68
Mission		Printing and Li	193	165	85.49
Modesto		Printing and Li	145	89	61.38
Moorpark		Printing and Li	52	47	90.38
Palomar		Printing and Li	104	75	72.12
Pasadena		Printing and Li	138	123	89.13
Riverside		Printing and Li	141	133	94.33
Saddleback		Printing and Li	62	56	90.32
San Francisco		Printing and Li	89	79	88.76

# Fall 2010 male/female Retention

As of Date/Tir 15-Nov-11 5:43:47

College	Term	Program Type	Gender	Total Enrollme	Retention	Retention Rate(%)
Fresno City		Printing and Li	Female	7	7	100
Fresno City		Printing and Li	Male	10	8	80
Fresno City		Printing and Li	Unknown	1	0	0
Fullerton		Printing and Li	Female	53	45	84.91
Fullerton		Printing and Li	Male	112	93	83.04
Fullerton		Printing and Li	Unknown	5	4	80
Mission		Printing and Li	Female	89	73	82.02
Mission		Printing and Li	Male	80	62	77.5
Mission		Printing and Li	Unknown	4	3	75
Modesto		Printing and Li	Female	74	55	74.32
Modesto		Printing and Li	Male	81	67	82.72
Modesto		Printing and Li	Unknown	11	7	63.64
Palomar		Printing and Li	Female	63	57	90.48
Palomar		Printing and Li	Male	54	49	90.74
Pasadena		Printing and Li	Female	72	68	94.44
Pasadena		Printing and Li	Male	112	100	89.29
Pasadena		Printing and Li	Unknown	1	1	100
Riverside		Printing and Li	Female	88	77	87.5
Riverside		Printing and Li	Male	128	119	92.97
Saddleback		Printing and Li	Female	12	11	91.67
Saddleback		Printing and Li	Male	39	37	94.87
Saddleback		Printing and Li	Unknown	3	3	100
San Francisco		Printing and Li	Female	71	66	92.96
San Francisco		Printing and Li	Male	24	22	91.67
San Francisco		Printing and Li	Unknown	3	3	100
Solano		Printing and Li	Female	13	13	100
Solano		Printing and Li	Male	5	1	20

# Fall 2010 Retention

As of Date/Tir 13-Nov-11 5:41:06

College	Term	Program Type	Total Enrollment	Retention	Retention Rate(%)
Fresno City		Printing and Li	18	15	83.33
Fullerton		Printing and Li	170	142	83.53
Mission		Printing and Li	173	138	79.77
Modesto		Printing and Li	166	129	77.71
Palomar		Printing and Li	117	106	90.6
Pasadena		Printing and Li	185	169	91.35
Riverside		Printing and Li	216	196	90.74
Saddleback		Printing and Li	54	51	94.44
San Francisco		Printing and Li	98	91	92.86
Solano		Printing and Li	18	14	77.78

# Fall 2010 Success

As of Date/Tim 13-Nov-11

5:48:58

College	Term	Program Type	Total Enrollment	Success	Success Rate(%)
Fresno City		Printing and Li	18	10	55.56
Fullerton		Printing and Li	170	124	72.94
Mission		Printing and Li	173	117	67.63
Modesto		Printing and Li	166	86	51.81
Palomar		Printing and Li	117	79	67.52
Pasadena		Printing and Li	185	152	82.16
Riverside		Printing and Li	216	187	86.57
Saddleback		Printing and Li	54	48	88.89
San Francisco		Printing and Li	98	84	85.71
Solano		Printing and Li	18	13	72.22

# Fall 2010 Ethnic Success

As of Date/Tir 15-Nov-11 5:54:15

College	Term	Program Type	Ethnicity	Total Enrollme	Success	Success Rate(%)
Fresno City		Printing and Li	American Indi	1	1	100
Fresno City		Printing and Li	Asian	3	2	66.67
Fresno City		Printing and Li	Hispanic	5	3	60
Fresno City		Printing and Li	White Non-His	9	4	44.44
Fullerton		Printing and Li	African-Americ	7	2	28.57
Fullerton		Printing and Li	American Indi	2	1	50
Fullerton		Printing and Li	Asian	18	16	88.89
Fullerton		Printing and Li	Filipino	1	1	100
Fullerton		Printing and Li	Hispanic	64	42	65.63
Fullerton		Printing and Li	Multi-Ethnicity	3	2	66.67
Fullerton		Printing and Li	Pacific Islande	1	1	100
Fullerton		Printing and Li	Unknown	11	8	72.73
Fullerton		Printing and Li	White Non-His	63	51	80.95
Mission		Printing and Li	African-Americ	3	1	33.33
Mission		Printing and Li	American Indi	2	1	50
Mission		Printing and Li	Asian	43	28	65.12
Mission		Printing and Li	Filipino	25	17	68
Mission		Printing and Li	Hispanic	28	16	57.14
Mission		Printing and Li	Multi-Ethnicity	2	2	100
Mission		Printing and Li	Unknown	16	11	68.75
Mission		Printing and Li	White Non-His	54	41	75.93
Modesto		Printing and Li	African-Americ	10	4	40
Modesto		Printing and Li	Asian	4	1	25
Modesto		Printing and Li	Filipino	1	1	100
Modesto		Printing and Li	Hispanic	57	32	56.14
Modesto		Printing and Li	Multi-Ethnicity	3	3	100
Modesto		Printing and Li	Pacific Islande	1	1	100
Modesto		Printing and Li	Unknown	21	12	57.14
Modesto		Printing and Li	White Non-His	69	32	46.38
Palomar		Printing and Li	African-Americ	4	3	75
Palomar		Printing and Li	Asian	7	6	85.71
Palomar		Printing and Li	Filipino	1	1	100

Palomar	Printing and Li Hispanic	31	22	70.97
Palomar	Printing and Li Multi-Ethnicity	8	3	37.5
Palomar	Printing and Li Pacific Islande	1	0	0
Palomar	Printing and Li Unknown	2	1	50
Palomar	Printing and Li White Non-His	63	43	68.25
Pasadena	Printing and Li African-American	8	5	62.5
Pasadena	Printing and Li American Indian	2	2	100
Pasadena	Printing and Li Asian	26	22	84.62
Pasadena	Printing and Li Filipino	4	3	75
Pasadena	Printing and Li Hispanic	96	80	83.33
Pasadena	Printing and Li Multi-Ethnicity	4	4	100
Pasadena	Printing and Li Pacific Islande	3	3	100
Pasadena	Printing and Li Unknown	10	7	70
Pasadena	Printing and Li White Non-His	32	26	81.25
Riverside	Printing and Li African-American	21	15	71.43
Riverside	Printing and Li Asian	7	5	71.43
Riverside	Printing and Li Filipino	15	15	100
Riverside	Printing and Li Hispanic	88	78	88.64
Riverside	Printing and Li Multi-Ethnicity	5	3	60
Riverside	Printing and Li Unknown	14	13	92.86
Riverside	Printing and Li White Non-His	66	58	87.88
Saddleback	Printing and Li American Indian	1	1	100
Saddleback	Printing and Li Asian	4	4	100
Saddleback	Printing and Li Filipino	1	1	100
Saddleback	Printing and Li Hispanic	5	5	100
Saddleback	Printing and Li Multi-Ethnicity	4	3	75
Saddleback	Printing and Li Unknown	2	2	100
Saddleback	Printing and Li White Non-His	37	32	86.49
San Francisco	Printing and Li African-American	6	4	66.67
San Francisco	Printing and Li American Indian	1	1	100
San Francisco	Printing and Li Asian	27	25	92.59
San Francisco	Printing and Li Filipino	1	1	100
San Francisco	Printing and Li Hispanic	16	12	75
San Francisco	Printing and Li Multi-Ethnicity	6	3	50
San Francisco	Printing and Li Unknown	6	6	100

San Francisco	35	32	91.43
Solano	3	2	66.67
Solano	2	0	0
Solano	3	2	66.67
Solano	2	1	50
Solano	1	1	100
Solano	2	2	100
Solano	5	5	100

Printing and Li White Non-His
Printing and Li African-Americ
Printing and Li Filipino
Printing and Li Hispanic
Printing and Li Multi-Ethnicity
Printing and Li Pacific Islande
Printing and Li Unknown
Printing and Li White Non-His



# Fall 2010 Ethnic Retention

15-Nov-11 5:51:22

College	Term	Program Type	Ethnicity	Total Enrollme	Retention	Retention Rate(%)
Fresno City		Printing and Li	American Indi	1	1	100
Fresno City		Printing and Li	Asian	3	3	100
Fresno City		Printing and Li	Hispanic	5	5	100
Fresno City		Printing and Li	White Non-His	9	6	66.67
Fullerton		Printing and Li	African-Americ	7	5	71.43
Fullerton		Printing and Li	American Indi	2	2	100
Fullerton		Printing and Li	Asian	18	16	88.89
Fullerton		Printing and Li	Filipino	1	1	100
Fullerton		Printing and Li	Hispanic	64	52	81.25
Fullerton		Printing and Li	Multi-Ethnicity	3	2	66.67
Fullerton		Printing and Li	Pacific Islande	1	1	100
Fullerton		Printing and Li	Unknown	11	9	81.82
Fullerton		Printing and Li	White Non-His	63	54	85.71
Mission		Printing and Li	African-Americ	3	1	33.33
Mission		Printing and Li	American Indi	2	2	100
Mission		Printing and Li	Asian	43	35	81.4
Mission		Printing and Li	Filipino	25	17	68
Mission		Printing and Li	Hispanic	28	23	82.14
Mission		Printing and Li	Multi-Ethnicity	2	2	100
Mission		Printing and Li	Unknown	16	13	81.25
Mission		Printing and Li	White Non-His	54	45	83.33
Modesto		Printing and Li	African-Americ	10	5	50
Modesto		Printing and Li	Asian	4	4	100
Modesto		Printing and Li	Filipino	1	1	100
Modesto		Printing and Li	Hispanic	57	46	80.7
Modesto		Printing and Li	Multi-Ethnicity	3	3	100
Modesto		Printing and Li	Pacific Islande	1	1	100
Modesto		Printing and Li	Unknown	21	16	76.19
Modesto		Printing and Li	White Non-His	69	53	76.81
Palomar		Printing and Li	African-Americ	4	4	100
Palomar		Printing and Li	Asian	7	7	100
Palomar		Printing and Li	Filipino	1	1	100

Palomar	Printing and Li Hispanic	31	29	93.55
Palomar	Printing and Li Multi-Ethnicity	8	6	75
Palomar	Printing and Li Pacific Islande	1	1	100
Palomar	Printing and Li Unknown	2	1	50
Palomar	Printing and Li White Non-His	63	57	90.48
Pasadena	Printing and Li African-Americ	8	6	75
Pasadena	Printing and Li American Indi:	2	2	100
Pasadena	Printing and Li Asian	26	25	96.15
Pasadena	Printing and Li Filipino	4	3	75
Pasadena	Printing and Li Hispanic	96	87	90.63
Pasadena	Printing and Li Multi-Ethnicity	4	4	100
Pasadena	Printing and Li Pacific Islande	3	3	100
Pasadena	Printing and Li Unknown	10	10	100
Pasadena	Printing and Li White Non-His	32	29	90.63
Riverside	Printing and Li African-Americ	21	17	80.95
Riverside	Printing and Li Asian	7	6	85.71
Riverside	Printing and Li Filipino	15	15	100
Riverside	Printing and Li Hispanic	88	80	90.91
Riverside	Printing and Li Multi-Ethnicity	5	3	60
Riverside	Printing and Li Unknown	14	14	100
Riverside	Printing and Li White Non-His	66	61	92.42
Saddleback	Printing and Li American Indi:	1	1	100
Saddleback	Printing and Li Asian	4	4	100
Saddleback	Printing and Li Filipino	1	1	100
Saddleback	Printing and Li Hispanic	5	5	100
Saddleback	Printing and Li Multi-Ethnicity	4	4	100
Saddleback	Printing and Li Unknown	2	2	100
Saddleback	Printing and Li White Non-His	37	34	91.89
San Francisco	Printing and Li African-Americ	6	6	100
San Francisco	Printing and Li American Indi:	1	1	100
San Francisco	Printing and Li Asian	27	25	92.59
San Francisco	Printing and Li Filipino	1	1	100
San Francisco	Printing and Li Hispanic	16	15	93.75
San Francisco	Printing and Li Multi-Ethnicity	6	5	83.33
San Francisco	Printing and Li Unknown	6	6	100

San Francisco	Printing and Li White Non-His	35	32	91.43
Solano	Printing and Li African-Americ	3	2	66.67
Solano	Printing and Li Filipino	2	0	0
Solano	Printing and Li Hispanic	3	3	100
Solano	Printing and Li Multi-Ethnicity	2	1	50
Solano	Printing and Li Pacific Islande	1	1	100
Solano	Printing and Li Unknown	2	2	100
Solano	Printing and Li White Non-His	5	5	100