GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Introduction

In keeping with Section 78016 (Review of program; termination) of the California Education Code, which states that …"Every vocational or occupational training program offered by a community college district shall be reviewed every two years by the governing board of the district…", program reviews have been completed on the following nine Career Technical Education training programs at Cuyamaca College:

1. Entrepreneurship – Small Business Management
2. Environmental Health and Safety Management
3. Graphic Design
4. Management
5. Ornamental Horticulture
6. Paralegal Studies
7. Real Estate
8. Surveying
9. Water/Wastewater Technology

Information collected for these reviews was obtained from the following sources:

1. Occupational Employment Projections 2008-2018, San Diego County, http://www.labormarketinfo.edd.ca.gov/CommColleges/

2. PERKINS IV Program Performance Trend Report, Core Indicator Two – Total Completions - Certifications, Degrees and Transfer, http://reports.cccco.edu/Reports/Pages/Folder.aspx

3. PERKINS IV Program Performance Trend Report, Core Indicator Four – *Employment*, http://reports.cccco.edu/Reports/Pages/Folder.aspx

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Definitions

TOP Code: Taxonomy of Programs Code; the statewide number-designator assigned to a program of study.

Core 2: Measures "Completions," defined as the number of students who earned a certificate (uses all credit certificates), degree, or were transfer prepared in the cohort year. Student concentrators not enrolling in vocational courses at the college in the cohort year who receive a vocational award during the cohort year are considered a concentrator and a completer in the cohort year. Students meeting criteria for this indicator with 12+ CTE units in a discipline (one course is above intro) in 3 years. See cohort specifications for full criteria.

Core 4: Measures "Employment," defined as the number of students who found employment in any of the available sources in any quarter in the year following the cohort year. Available sources as of Spring 2008 are limited to Unemployment Insurance base wage file matches and apprenticeship programs offered in community colleges. Students meeting criteria for this indicator with 12+ CTE units in a discipline (one course is above intro) in 3 years. See cohort specifications for full criteria.

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

ENTREPRENEURSHIP-SMALL BUSINESS MANAGEMENT

I.   Program Description
The Entrepreneurship curriculum provides a course of study for students who are interested in working toward an associate degree or certificate while developing an appreciation and understanding of the functional areas within the small business environment. This program provides a working knowledge of small business operations to both the prospective business person as well as the owner/manager of an existing business.

A.   Associate in Science, Entrepreneurship – Small Business Management

B.   Certificate of Achievement, Entrepreneurship – Small Business Management

II.   Labor Market Demand
The Entrepreneurship – Small Business Management Program at Cuyamaca College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

A.   Employment Trends:

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Managers, All Other	0506.40	11-9199	SD	8,460	9,920	1,460	17.3	334
			CA	87,900	98,200	10,300	11.7	2,980

Occupational Employment Projections 2010-2020
San Diego County
http://www.labormarketinfo.edd.ca.gov/commcolleges/

B.   Career Opportunities:
Administrative Assistant   Bookkeeper
Assistant Manager   Small Business Owner/Manager

III.   Other Regional Programs
The Entrepreneurship – Small Business Management Program at Cuyamaca College does not represent unnecessary duplication of other training programs in the area. Other programs are at MiraCosta College, Palomar College, San Diego City College, San Diego Mesa College, and Southwestern College.

IV.   Employment and Completion
(Based on State Core Measures Report, 2012-2013)

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

**REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013**

Cuyamaca College

Core 2 "Completions," defined as student attainment of an industry-recognized credential, a certificate, or a degree.

	Program	Total Completions	% of Completion
GCCCD	Business	28	78.57
Statewide	Management	22,788	82.49

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

Core 4 "Employment" defined as student placement in military service or apprenticeship programs or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions.

	Program	Total Employment	% of Employment
GCCCD	Business	23	82.61
Statewide	Management	14,667	65.59

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

V.   Recommendations
Continue Entrepreneurship – Small Business Management Program at Cuyamaca College.

ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT

I.   **Program Description**
This degree and certificate program provides entry level skills as well as upgrading/ refining existing skills of individuals employed in the field of Environmental Technology. The curriculum prepares students for transfer to four-year institutions in an Environmental Technology or related major. Courses are designed for students pursuing careers in Environmental Management and Occupational Safety and Health with an emphasis on training, regulatory compliance and program development, consulting, pollution prevention, recycling, remediation, conservation and program management.

   A.   Degrees:

   Associate in Science, Environmental Management
   Associate in Science, Occupational Safety and Health

   B.   Certificates:

   Certificate of Achievement, Environmental Technician
   Certificate of Achievement, Occupational Safety and Health Technician

II.   **Labor Market Demand**
The Environmental Technology Program at Cuyamaca College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

   A.   Employment Trends:

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Compliance Officers, Except Agriculture	0303.00	13-1041	SD	3,460	4,270	810	23.4	123
			CA	25,900	30,000	4,100	15.8	720
Environmental Engineering Technicians	0303.00	17-3025	SD	320	420	100	31.3	16
			CA	2,700	3,200	500	18.5	100
Environmental Technicians, Including Health	0303.00	19-4091	SD	570	720	150	26.3	40
			CA	3,400	4,300	900	26.5	230
Geological and Petroleum Technicians	0303.00	19-4041	SD	120	180	60	50.0	10
			CA	1,900	2,100	200	10.5	80

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Hazardous Materials Removal Workers	0303.00	47-4041	SD	420	520	100	23.8	21
			CA	4,300	5,100	800	18.6	190
Health Technologists and Technicians, All Other	0303.00	29-2799	SD	NR	NR	NR	NR	NR
			CA	15,000	18,800	3,800	25.3	680
Occupational Health and Safety Specialists	0303.00	29-9011	SD	570	660	90	15.8	29
			CA	6,300	7,200	900	14.3	310

Occupational Employment Projections 2010-2020
San Diego County
http://www.labormarketinfo.edd.ca.gov/commcolleges/
http://www.labormarketinfo.edd.ca.gov/cgi/databrowsing/occExplorerQSSelection.asp?menuChoice=occExplorer

NR – Not Reported

B. Career Opportunities:

Air Quality Engineer	Geologist
Asbestos Materials Building Remover	Health and Safety Technician
Associate Toxic Waste Specialist	Industrial Hygiene Technician
Chemical Handler	Land Use and Planning Technician
Environmental Engineer	Mold Remediation Technician
Environmental Hazardous Material Tech.	Occupational Health & Safety Tech.
Environmental Health and Safety Specialist	Pollution Control Technician
Environmental Journalist	Recycling Coordinator
Environmental Lawyer	Risk Management Technician
Environmental Manager	Safety Officer/Specialist
Environmental Protection Specialist	Soils Analyst
Environmental Research – Test Technician	Solar Energy Installer
Game or Fishery Technician	Water/Waste Water Treatment
Operator	

III. Other Regional Programs

The Environmental Technology Program at Cuyamaca College does not represent unnecessary duplication of other training programs in the area. Other programs are at Imperial Valley College, Palomar College, and Southwestern College.

IV. Employment and Completion

(Based on State Core Measures Report, 2012-2013)

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Core 2 "Completions," defined as student attainment of an industry-recognized credential, a certificate, or a degree.

	Program	Total Completions	% of Completion
GCCCD	Environmental Technology	34	79.41
Statewide		634	59.31

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

Core 4 "Employment" defined as student placement in military service or apprenticeship programs or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions.

	Program	Total Employment	% of Employment
GCCCD	Environmental Technology	29	89.66
Statewide		565	72.21

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

V. Recommendations
Continue Environmental Health and Safety Management Program at Cuyamaca College.

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

GRAPHIC DESIGN

I.   **Program Description**
The Graphic Design degree program develops entry level abilities in design aesthetics, typography, illustration, digital imaging, page layout, web page design and professional business practices. Courses utilize current computer hardware and software used in the graphic design profession. Students will develop a professional portfolio for job interview.

A.   Degrees:

Associate in Science, Graphic Design

B.   Certificates:

Certificate of Achievement, Graphic Design
Certificate of Specialization, Digital Photography
Certificate of Specialization, Web Graphics

II.   **Labor Market Demand**
The Graphic Design Program at Cuyamaca College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

A.   Employment Trends:

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Art Directors	1030.00	27-1011	SD	640	700	60	9.4	21
			CA	14,400	16,100	1,700	11.8	510
Artists and Related Workers, All Other	1030.00	27-1019	SD	NR	NR	NR	NR	NR
			CA	1,600	1,700	100	6.3	50
Graphic Designers	1030.00	27-1024	SD	3,360	4,000	640	19.0	167
			CA	37,300	43,300	6,000	16.1	1,760
Multi-Media Artists and Animators	1030.00	27-1014	SD	1,090	1,200	110	10.1	37
			CA	21,400	23.300	1,900	8.9	700
Painting, Coating, and Decorating Workers	1030.00	51-9123	SD	110	90	-20	-18.2	2
			CA	1,500	1,600	100	6.7	40

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Prepress Technicians and Workers	1030.00	51-5111	SD	310	210	-100	-32.3	7
			CA	5,300	3,700	-1,600	-30.2	120

Occupational Employment Projections 2010-2020
San Diego County
http://www.labormarketinfo.edd.ca.gov/commcolleges/

NR – Not Reported

    B.   Career Opportunities

Advertising Director	Illustrator
Art Director	Marketing Director
Cartoonist	Multimedia Designer
Desktop Publisher	Package Designer
Display Designer	Technical Illustrator
Graphic Designer	Web Page Designer

III. **Other Regional Programs**
The Graphic Design Program at Cuyamaca College does not represent unnecessary duplication of other training programs in the area. Other programs are at Palomar College, San Diego City College, San Diego Mesa College, Mira Costa, and Southwestern College.

IV. **Employment and Completion**
(Based on State Core Measures Report, 2012-2013)

Core 2 "Completions," defined as student attainment of an industry-recognized credential, a certificate, or a degree.

	Program	Total Completions	% of Completion
GCCCD	Graphic Art and Design	50	80.00
Statewide		6,998	84.74

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Core 4 "Employment" defined as student placement in military service or apprenticeship programs or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions.

	Program	Total Employment	% of Employment
GCCCD	Graphic Art and	30	66.67
Statewide	Design	4,176	63.43

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

V. **Recommendations**
   Continue Graphic Design Program at Cuyamaca College.

MANAGEMENT

I. **Program Description**
The Management degree program is designed to provide students with the skills necessary to be successful as a manager in today's demanding organizational climate. The curriculum is beneficial to men or women who aspire to a mid-level or higher management position in any type of organization including business, government and service organizations.

  A. Degrees:

  Associate in Science, Management

  B. Certificates:

  Certificate of Achievement, Management

II. **Labor Market Demand**
The Management Program at Cuyamaca College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

  A. Employment Trends:

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Administrative Services Managers	0506.00	11-3011	SD	2,950	3,510	560	19.0	129
			CA	31,000	35,900	4,900	15.8	1,270
Chief Executives	0506.00	11-1011	SD	3,470	3,800	330	9.5	124
			CA	41,100	42,900	1,800	4.4	1,250
Construction Managers	0506.00	11-9021	SD	6,170	7,270	1,100	17.8	151
			CA	59,600	68,000	8,400	14.1	1,220
Cost Estimators	0506.00	13-1051	SD	2,180	2,930	750	34.4	117
			CA	22,400	29,600	7,200	32.1	1,160
General and Operations Managers	0506.00	11-1021	SD	20,580	22,620	2,040	9.9	587
			CA	236,600	251,700	15,100	6.4	5,910
Industrial Production Managers	0506.00	11-3051	SD	1,330	1,490	160	12.0	47
			CA	17,800	19,600	1,800	10.1	590
Management Analysts	0506.00	13-111	SD	9,160	11,520	2,360	25.8	385
			CA	82,800	101,400	18,600	22.5	3,220

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Managers, All Other	0506.00	11-9199	SD	8,460	9,920	1,460	17.3	334
			CA	87,900	98,200	10,300	11.7	2,980
Sales Managers	0506.00	11-2022	SD	4,480	5,340	860	19.2	216
			CA	56,300	66,200	9,900	17.6	2,630
Social and Community Service Managers	0506.00	11-9151	SD	1,240	1,490	250	20.2	52
			CA	15,600	18,800	3,200	20.5	660
Transportation, Storage, and Distribution Managers	0506.00	11-3071	SD	860	1,000	140	16.3	35
			CA	12,100	13,800	1,700	14.0	460

Occupational Employment Projections 2010-2020
San Diego County
http://www.labormarketinfo.edd.ca.gov/commcolleges/

B.   Career Opportunities:

Bank Officer	Import-Export Agent
Claim Adjuster	Management Trainee
Computer Operations Supervisor	Management Consultant
Director, Research and Development	Office Manager
Employment Interviewer	Stock Broker
Financial Planner	Teacher, College
Hospital Administrator	

III.   Other Regional Programs

The Management Program at Cuyamaca College does not represent unnecessary duplication of other training programs in the area. Other programs exist in virtually all the Business Departments at community colleges.

IV.   Employment and Completion

(Based on State Core Measures Report, 2012-2013)

Core 2 "Completions," defined as student attainment of an industry-recognized credential, a certificate, or a degree.

	Program	Total Completions	% of Completion
GCCCD	Business	31	83.87
Statewide	Management	22,786	84.22

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Core 4 "Employment" defined as student placement in military service or apprenticeship programs or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions.

	Program	Total Employment	% of Employment
GCCCD	Business	19	78.95
Statewide	Management	13,678	69.69

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

V.   Recommendations
Continue the Management Program at Cuyamaca College.

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

ORNAMENTAL HORTICULTURE

I.   Program Description
The Ornamental Horticulture degree program provides for entry level skills, upgrading of existing skills, and preparation for further training. It is designed for students interested in a plethora of different careers in nursery and greenhouse management, landscape design and construction, grounds management, retail nursery operations, irrigation system design, installation and maintenance of interior plantscaping and other related fields. Emphasis is on hands-on experience with student participation in labs. Students will learn modern horticulture methods and procedures as well as the use of tools and equipment common to the field. Within the past two years, a new degree in Sustainable Urban Landscape has been developed to address growing interest in sustainability.

A.   Degrees

Associate in Science, Ornamental Horticulture: Arboriculture
Associate in Science, Ornamental Horticulture: Floristry
Associate in Science, Ornamental Horticulture: Golf Course and Sports Turf Management
Associate in Science, Ornamental Horticulture: Irrigation Technology
Associate in Science, Ornamental Horticulture: Landscape Design
Associate in Science, Ornamental Horticulture: Landscape Technology
Associate in Science, Ornamental Horticulture: Nursery Technology
Associate in Science, Ornamental Horticulture: Sustainable Urban Landscape

B.   Certificates
Certificate of Achievement, Ornamental Horticulture: Arboriculture
Certificate of Achievement, Ornamental Horticulture: Floristry
Certificate of Achievement, Ornamental Horticulture: Golf Course and Sports Turf Management
Certificate of Achievement, Ornamental Horticulture: Irrigation Technology
Certificate of Achievement, Ornamental Horticulture: Landscape Design
Certificate of Achievement, Ornamental Horticulture: Landscape Technology
Certificate of Achievement, Ornamental Horticulture: Nursery Technology
Certificate of Achievement, Ornamental Horticulture: Sustainable Urban Landscape

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

II.   **Labor Market Demand**
The Ornamental Horticulture Program at Cuyamaca College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

A.   Employment Trends:

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Farmers, Ranchers, and Other Agricultural Managers	0109.00	11-9013	SD	5,770	5,590	-180	-3.1	112
			CA	137,700	133,000	-4,700	-3.4	2,680
Farmworkers and Laborers, Crop and Nursery	0109.00	45-2092	SD	6,110	6,480	370	6.1	224
			CA	246,800	250,300	3,500	1.4	7,880
Grounds Maintenance Workers, All Other	0109.00	37-3019	SD	NR	NR	NR	NR	NR
			CA	1,300	1,400	100	7.7	30
Landscaping and Groundskeeping Workers	0109.00	37-3011	SD	14,250	17,990	3,740	26.2	626
			CA	138,500	168,400	29,900	21.6	5,440
Landscaping and Groundskeeping Supervisors	0109.00	37-1012	SD	2,240	2,690	450	20.1	77
			CA	20,400	23,500	3,100	15.2	600

Occupational Employment Projections 2010-2020
San Diego County
http://www.labormarketinfo.edd.ca.gov/commcolleges/
http://www.labormarketinfo.edd.ca.gov/cgi/databrowsing/occExplorerQSSelection.asp?menuChoice=occExplorer

NR – Not Reported

B.   Career Opportunities

Agricultural Inspector	Grower/Production Manager
Agricultural Researcher	Horticultural Journalist
Arboretum/Park Director	Irrigation Consultant
Arboriculture Technician	Landscape Architect
Botanical Illustrator	Landscape Design
County/State Agricultural Advisor	Landscape Technician
Environmental Designer	Nursery/Garden Center Mgr.
Floral Designer	Park Planner/Manager

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Flower Shop Manager	Plant Breeder/Propagator
Golf Course Superintendent	Sports Field Manager
Golf Course Worker	Turf Manager
Greenhouse Manager	Water Auditor
Grounds Maintenance Manager	Water Conservationist

III.   Other Regional Programs
The Ornamental Horticulture Program at Cuyamaca College does not represent unnecessary duplication of other training programs in the area. Other programs are at Imperial Valley College, MiraCosta College, San Diego Mesa College, and Southwestern College.

IV.   Employment and Completion
(Based on State Core Measures Report, 2012-2013)

Core 2 "Completions," defined as student attainment of an industry-recognized credential, a certificate, or a degree.

	Program	Total Completions	% of Completion
GCCCD	Horticulture	41	70.73
Statewide		4,105	76.59

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

Core 4 "Employment" defined as student placement in military service or apprenticeship programs or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions.

	Program	Total Employment	% of Employment
GCCCD	Horticulture	28	71.43
Statewide		3,776	64.35

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

V.   Recommendations
Continue Ornamental Horticulture Program at Cuyamaca College.

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

PARALEGAL STUDIES

I.   **Program Description**
The legal profession continues to evolve, like the medical profession, into a profession of specialties. Based on this recent development, lawyers need qualified assistants to better help them provide legal services to their clients. Paralegals are trained, professional technicians able to provide this needed legal assistance. The program at Cuyamaca College is approved by the American Bar Association which is of great benefit to our students when seeking employment.

The Paralegal Studies degree program is specifically designed to prepare and provide students with the analytical skills and written abilities necessary to assist attorneys in the practice of law. The technical curriculum goals and objectives emphasize three primary areas:
    1.   Legal Research, Analysis and Writing
    2.   Ethics and the Mechanics of Law
    3.   Cooperative Work Experience

The successful paralegal degree candidate will possess a broad educational background with an opportunity to gain specialized skills in specific areas of law. The large curriculum offering also allows practicing paralegals to attend college refresher or new skills development courses. This program does not prepare students for law school or the practice of law.

A.   Associate in Science, Paralegal Studies

B.   Certificates: not allowed for ABA Approved programs.

II.   **Labor Market Demand**
The Paralegal Studies Program at Cuyamaca College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

A.   Employment Trends:

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Legal Support Workers, All Other	1402.00	23-2099	SD	600	690	90	15.0	18
			CA	7,200	7,600	400	5.6	150
Paralegals and Legal Assistants	1402.00	23-2011	SD	3,300	4,230	930	28.2	139
			CA	26,800	32,200	5,400	20.1	920

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Title Examiners, Abstractors, & Searchers	1402.00		SD	470	530	60	12.8	13
			CA	5,100	5,300	200	3.9	100

Occupational Employment Projections 2010-2020
San Diego County
http://www.labormarketinfo.edd.ca.gov/commcolleges/

B. Career Opportunities:

Claim Examiner	Legal Aide
Compensation and Benefits Manager	Legal Assistant
Compliance and Enforcement Inspector	Legal Research Assistant
Contract Consultant	Legal Technician
Forms and Procedures Specialist	Occupational Safety &Health Worker
Freelance Paralegal	Paralegal
Labor Relations Specialist	Patent Agent
Law Clerk	Title Examiner

III. **Other Regional Programs**
The Paralegal Studies Program at Cuyamaca College does not represent unnecessary duplication of other training programs in the area. Other programs are at Palomar College, San Diego City College, San Diego Miramar College, and Southwestern College. **The program at Cuyamaca College is an ABA Approved program.**

IV. **Employment and Completion**
(Based on State Core Measures Report, 2012-2013)

Core 2 "Completions," defined as student attainment of an industry-recognized credential, a certificate, or a degree.

	Program	Total Completions	% of Completion
GCCCD	Paralegal	48	89.58
Statewide		12,983	86.25

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Core 4 "Employment" defined as student placement in military service or apprenticeship programs or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions.

	Program	Total Employment	% of Employment
GCCCD	Paralegal	36	75.00
Statewide		10,278	69.97

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

V.   Recommendations
Continue the Paralegal Studies Program at Cuyamaca College.

REAL ESTATE

I. Program Description

This degree program is designed to prepare students for employment in real estate or related fields. Also meets the educational requirements for the California Real Estate Broker's License and helps prepare both the salesperson and the broker for the state examination. Real Estate Principles is offered online as well as face-to-face and the department is exploring offering more of the curriculum in an online format to better meet the needs of working adults.

A.   Degrees:

Associate in Science, Real Estate

B.   Certificates:

Certificate of Achievement, Broker's License
Certificate of Achievement, Escrow

II.   Labor Market Demand

The Real Estate Program at Cuyamaca College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

A.   Employment Trends:

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Property and Community Association Managers	0511.00	11-9141	SD	5,480	6,100	620	11.3	177
			CA	52,000	54,400	2,400	4.6	1,340
Real Estate Appraisers and Assessors	0511.00	13-2021	SD	300	340	40	13.3	10
			CA	6,200	6,800	600	9.7	190
Real Estate Brokers	0511.00	41-9021	SD	1,220	1,380	160	13.1	44
			CA	10,900	12,600	1,700	15.6	420
Real Estate Sales Agents	0511.00	41-9022	SD	3,460	4,070	610	17.6	139
			CA	29,400	34,700	5,300	18.0	1,190

Occupational Employment Projections 2010-2020
San Diego County
http://www.labormarketinfo.edd.ca.gov/commcolleges/

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

    B.   Career Opportunities:

Agent	Investor
Appraiser	Lender/Financial Institution
Broker	Property Manager
Builder/Developer	Salesperson
Economist	Title Officer
Escrow Officer/Trust Manager	

III.   Other Regional Programs
The Real Estate Program at Cuyamaca College does not represent unnecessary duplication of other training programs in the area. Other programs are at MiraCosta College, Palomar College, San Diego City College, San Diego Mesa College, and Southwestern College.

IV.   Employment and Completion
(Based on State Core Measures Report, 2012-2013)

Core 2 "Completions," defined as student attainment of an industry-recognized credential, a certificate, or a degree.

	Program	Total Completions	% of Completion
GCCCD	Real Estate	24	50.00
Statewide		10,073	71.49

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

Core 4 "Employment" defined as student placement in military service or apprenticeship programs or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions.

	Program	Total Employment	% of Employment
GCCCD	Real Estate	25	64.00
Statewide		8,678	58.61

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

V.   Recommendations
Continue the Real Estate Program at Cuyamaca College.

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

SURVEYING

I. **Program Description**
This degree program prepares students to enter the civil engineering field. Competency in care and operation of field instruments, solution of problems in the laboratory, drafting of land survey maps and civil engineering plans, and application of studies to field practice are thoroughly explored. Currently three representatives from the California Land Surveyors Association are teaching in the program and developing new curriculum; the program has benefited from significant donations from related businesses. A newly formed Industry Advisory Committee will meet this spring to address changes in the industry. One, of significance, is the requirement than persons be separately licensed to review and sign off on plot plans and adjust property lines. Civil Engineers must also be a licensed land surveyor to do this work.

    A.   Associate in Science, Surveying

    B.   Certificate of Achievement, Surveying

II. **Labor Market Demand**
The Surveying Program at Cuyamaca College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

    A.   Employment Trends:

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Cartographers and Photogrammetrists	0957.30	17-1021	SD	240	300	60	25.0	11
			CA	1,300	1,600	300	23.1	60
Surveying and Mapping Technicians	0957.30	17-3031	SD	350	440	90	25.7	15
			CA	3,200	3,600	400	12.5	100
Surveyors	0957.30	17-1022	SD	640	850	210	32.8	36
			CA	5,100	5,900	800	15.7	190

Occupational Employment Projections 2010-2020
San Diego County
http://www.labormarketinfo.edd.ca.gov/commcolleges/

    B.   Career Opportunities:

Geodetic Surveyor	Marine Surveyor
Geophysical Prospecting Surveyor	Mine Surveyor
Instruments Surveyor Assistant	Land Surveyor
Oil-Well Directional Surveyor	

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

III.   Other Regional Programs
The Surveying Program at Cuyamaca College does not represent unnecessary duplication of other training programs in the area. Palomar College has closed their Surveying Program.

IV.   Employment and Completion
(Based on State Core Measures Report, 2012-2013)

Core 2 "Completions," defined as student attainment of an industry-recognized credential, a certificate, or a degree.

	Program	Total Completions	% of Completion
GCCCD	Civil and Construction	2	50.00
Statewide	Management Technology	4,752	55.51

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

Core 4 "Employment" defined as student placement in military service or apprenticeship programs or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions.

	Program	Total Employment	% of Employment
GCCCD	Civil and Construction	2	100.00
0Statewide	Management Technology	4,839	73.57

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_CoreIndi_TOPCode.aspx

V.   Recommendations
Continue the Surveying Program at Cuyamaca College.

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

<u>**Water and Wastewater Technology**</u>

I.   **Program Description**
The Water and Wastewater Technology Program is designed to prepare students for employment by municipal drinking water and wastewater treatment departments or industrial treatment facilities. Careers in water and wastewater technology generally involve the administration, operation and maintenance of both drinking water and wastewater treatment facilities as well as distribution and collection systems. There has been significant growth in the program since its inception.

   A.   Degrees

   Associate in Science, Water and Wastewater Technology: Cross Connection Control Systems
   Associate in Science, Water and Wastewater Technology: Water Distribution Systems
   Associate in Science, Water and Wastewater Technology: Water Treatment Plant Operator
   Associate in Science, Water and Wastewater Technology: Wastewater Collection Systems
   Associate in Science, Water and Wastewater Technology: Wastewater Treatment Operator

   B.   Certificates

   Certificate of Achievement, Water and Wastewater Technology: Cross Connection Control Systems
   Certificate of Achievement, Water and Wastewater Technology: Water Distribution Systems
   Certificate of Achievement, Water and Wastewater Technology: Water Treatment Plant Operator
   Certificate of Achievement, Water and Wastewater Technology: Wastewater Collection Systems
   Certificate of Achievement, Water and Wastewater Technology: Wastewater Treatment Operator

II. **Labor Market Demand**
The Water and Wastewater Technology Program at Cuyamaca College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

A.   Employment Trends:

Occupation	TOP Code	SOC Code		2010	2020	Numerical Change	% Change	Job Openings
Water and Liquid Waste Treatment Plant and System Operators	0958.00	51-8031	SD	470	530	60	12.8	19
			CA	9,800	10,700	900	9.2	350

Occupational Employment Projections 2010-2020
San Diego County
http://www.labormarketinfo.edd.ca.gov/commcolleges/

B.   Career Opportunities

Backflow Program Manager	Mechanical Systems Tech.
Construction Inspector	Plant Operator
Cross Connection Control Spec.	Plant Process Control Electrician
Electronic Technician	Plant Process Control Supervisor
Engineer, Civil	Recycled Water Inspector
Engineer, Electrical	Survey Technician
Equipment Maintenance Operator	Utility Worker
Field Operations Supervisor	Wastewater Plant Operator
Inspector	Wastewater Treatment Super.
Instrumentation/Control	Water Distribution Operator
Technician or Specialist	Water Quality and Treatment Mgr.
Laboratory Analyst	Water Systems Technician

III.   **Other Regional Programs**
The Water and Wastewater Technician Program at Cuyamaca College does not represent unnecessary duplication of other training programs in the area. Similar programs exist at Palomar College and Imperial Valley College. Both colleges support the Cuyamaca Program given the high demand for classes and regional industry support of all three programs.

IV.   **Employment and Completion**
(Based on State Core Measures Report, 2012-2013)

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

REVIEW OF VOCATIONAL TRAINING PROGRAMS
2012-2013

Cuyamaca College

Core 2 "Completions," defined as student attainment of an industry-recognized credential, a certificate, or a degree.

	Program	Total Completions	% of Completion
GCCCD	Water and Wastewater Technology	45	48.89
Statewide		2,143	62.34

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
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Core 4 "Employment" defined as student placement in military service or apprenticeship programs or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions.

	Program	Total Employment	% of Employment
GCCCD	Water and Wastewater Technology	51	84.31
Statewide		2,366	74.85

Perkins IV Core Indicator Reports
Summary Performance Detail Report by College - 4 Digit TOP
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V. Recommendations
Continue Water/Wastewater Technology Program at Cuyamaca College.