



**BAKERSFIELD COLLEGE: CAREER TECHNICAL EDUCATION**

**TWO YEAR PROGRAM REVIEW FORM**

**PROGRAM INFORMATION**

|   |                             |            |                         |
|---|-----------------------------|------------|-------------------------|
| Chair Name                              | Chris McCraw                | Date       | 9/10/2018               |
| Department                              | Agriculture                 | Discipline | Ornamental Horticulture |
| Most Recent Program Plan Completed On   |                             | Date       | 9/19/2018               |
| Most Recent Program Review Completed On |                             | Date       | 9/20/2016               |
| Faculty Name                            | Lindsay Ono                 |            |                         |
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**1. MEETS A DOCUMENTED LABOR MARKET DEMAND**

Source of information (check all that apply)

|                                     |   |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Bureau of Labor Statistics ( <a href="http://www.bls.gov">http://www.bls.gov</a> )  |
| <input type="checkbox"/>            | State of California Labor Market Information ( <a href="http://www.labormarketinfo.edd.ca.gov/">www.labormarketinfo.edd.ca.gov/</a> ) |
| <input checked="" type="checkbox"/> | Advisory Committee Meeting held on <span style="float:right">Attach Minutes</span>  |
| <input checked="" type="checkbox"/> | Professional Association  |
| <input checked="" type="checkbox"/> | Other <span style="float:right">EMSI Modeling Specialists</span>  |

**Findings** Horticultural supervisory level jobs have increased about 4% in Kern County and in California. The horticulture industry is estimated to have a statewide economic activity well over \$10 billion annually, with approximately 60% centered in Southern California. Services and uses account for slightly more than 50% of the total economic activity, production about 20%, and equipment and accessories about 30%.

**2. DOES NOT REPRESENT UNNECESSARY DUPLICATION OF OTHER MANPOWER TRAINING PROGRAMS IN THE AREA.**

List programs from other institutions (private/fee based/public):

| <i>Name of Institution</i>         | <i>Name of Program</i>     | <i>Distance to College</i> | <i>Public/Private</i>   | <i>Approx Enrollment</i> |
|------------------------------------|----------------------------|----------------------------|---|--------------------------|
| College of the Sequoias            | Ornamental Horticulture    | 70 Miles                   | <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private | 75                       |
| Reedley College                    | Environmental Horticulture | 100 Miles                  | <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private | 15                       |
| Cal Poly St. Univ. San Luis Obispo | Environmental Horticulture | 120 Miles                  | <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private | 140                      |

**Findings** Bakersfield College offers the only Environmental Horticulture program in Kern County and is the only program offering an Associate of Arts and Associate of Science degree in the southern San Joaquin Valley.

**3. DEMONSTRATED EFFECTIVENESS AS MEASURED BY EMPLOYMENT AND COMPLETION OF STUDENTS**

Core Indicator Data Reviewed  Yes  No Date 09/13/2018

Insert Scores Below:

Success: 89% Completion: **77.78%** Employment: **20%**  
 Non-Traditional: 34.62% Non-Traditional Completion: 35.29%

**Findings** Here pull your core indicator reports [https://misweb.cccco.edu/perkins/Core\\_Indicator\\_Reports/Forms\\_All.aspx](https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Forms_All.aspx)  
 Click on Form, Part 1, 6 digit TOP code, Select Bakersfield College, Select fiscal year (in this case 15/16, choose your TOP code, if you don't know it go here.  
[http://extranet.cccco.edu/Portals/1/AA/Credit/2013Files/TOPmanual6\\_2009\\_09corrected\\_12.5.13.pdf](http://extranet.cccco.edu/Portals/1/AA/Credit/2013Files/TOPmanual6_2009_09corrected_12.5.13.pdf)  
 Completion and employment findings were low. The job market has been soft due to drought restrictions in California. Some of our former students go into the job field without reporting that they have found a job in the industry. A number of our present students are currently employed in industry as well. Some also get jobs before completing the program.

#### 4. REVIEW/APPROVALS

| Date                                 | Signature | Title           |
|--------------------------------------|-----------|-----------------|
|                                      |           | Department Head |
|                                      |           | College Dean    |
| Presentation to Curriculum Committee |           |                 |
| Presentation to College Council      |           |                 |
| Presentation to Board of Trustee     |           |                 |

#### [Using EMSI / Educational Analyst / Programs / Program Report](#)

Run a historical Program Report for 2010 to 2015 to show the following data:

What TOP code(s) are you using for this report? [Using EMSI data answer the questions below](#)

| Code    | Description   |
|---------|---|
| 17-1012 | Landscape Architects  |
| 37-3011 | Landscaping and Groundskeeping Workers  |
| 37-1012 | First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers |
| 45-2092 | Farmworkers and Laborers, Crop, Nursery, and Greenhouse                         |
| 37-3013 | Tree Trimmers and Pruners   |
| 11-9013 | Farmers, Ranchers, and Other Agricultural Managers                              |
| 19-1013 | Soil and Plant Scientists   |
| 45-2011 | Agricultural Inspectors   |

- A) number of jobs within the above occupation(s) for 2012      69,285 jobs
- B) number of jobs within the above occupations(s) for 2017      82,276 jobs
- C) number and percent change (2012 to 2017)      Increase of 18.8%
- D) the average hourly earnings for the above occupation(s)      \$11.29/hr.
- E) number of completions (awards) from our college 2010-2015      16 completions
- F) number of completions (awards) from regional colleges 2010-2015      18 completions

Then run a projection Program Report for 2015 to 2020 to show the following data:

- A) number of jobs within the above occupation(s) for 2015      79,191 jobs
- B) number of jobs within the above occupations(s) for 2020      86,642 jobs
- C) number and percent change (2015 to 2020)      +7,451 jobs, 9.4% increase
- D) the average hourly earnings for the above occupation(s)      \$23.96

E) number of annual openings and total replacement jobs 7,451

**Does the above program meet a documented labor market demand? Please explain.**

Yes, the horticulture program does fulfil a need for the region and the state for horticulture based graduates. The program does not supply the quantity of regional graduates for industry demand. With the industry still continuing to grow more students will come from outside the region to fill the job vacancies.

**Using EMSI / Career Pathways / Occupation Analysis / Occupational Program Report**

See Attached.

**List all related programs of study by other educational institutions in our region:**

The other institutions in our region are COS College of the Sequoias and Reedley College.

**Does the above program represent unnecessary duplication of training programs in our area? Please explain.**

No, College of Sequoias is 70 miles away and Reedley College is 97 miles from Bakersfield. This is too far of a commute from Bakersfield for regular community college attendance.