

ATTACHMENT "A"
Academic Year 2017-2018

Program (Discipline) or Department Name	TOPS (Required for programs)
Plant Science	010300

List the projects included in your 2017-2018 by name and number

Number	Project Name	Total Perkins Funds Requested
1.0	Soil water vacuum extractor, glassware, and filters	\$1,000
2.0	Replacement electrodes for selective ion meters	\$3,000
3.0	Soil hydrometers	\$300
4.0		
5.0		
Total Amount of Perkins Funds Requested		\$4,300

Perkins Discipline/Department Planning/Implementation Team

VTEA Primary Contact Name	Phone	Email Address
Greg Cluff	661-395-4697	gcluff@bakersfieldcollege.edu

List other departments/discipline members/key staff who will be involved in the 2017-2018 Perkins plan and implementation:

Name	Phone	Email Address

Signatures (Required)

Your signature below indicates that this proposal has the support of the department/discipline and that the plan is aligned with overall college objectives:

Department Chair (Date)

Dean, Career Technical Education (Date)

**ATTACHMENT “B” (Limit to one project)
Academic Year 2017-2018**

Program (Discipline) or Department Name	TOPS (Required for programs)
Plant Science	010300

Description of Project

Number	Project Name	Total Perkins Funds Requested
3	Five soil hydrometers	\$300

Limit to one project

<p>Briefly describe gap to be addressed (Briefly describe program improvement issue(s))</p>	<ul style="list-style-type: none"> ● Brief Summary of Request: We need five more soil hydrometers to measure soil texture in our Soil B1 and Crops B5 labs. ● Brief Rationale of Program: Soil hydrometers are devices used to measure the texture of the soil (% sand, silt, and clay). This measurement is a necessary part in the development of management plans for agricultural and many natural soils. It is also part of the COR for the labs in both courses. ● Improvement Issues: Lack of adequate equipment and supplies for a good environment to learn skills needed in the industry. ● Core Indicators to Address: Labor Market: Core 3 – Persistence – At present we only have enough hydrometers for groups of four or five students. This lack of equipment leads to many students simply watching as the other students in the groups do all of the measurement work. This leads to frustration and a poor learning environment. Core 4 - Employment as a Certified Crop Advisor, Soils Specialist, Conservation Scientist, Environmental Scientist, Plant and Soil teacher or Crop Manager. The ability to physically use these devices is an absolute necessity for any graduate entering the plant and soil management industry. ● Supporting Labor Market Data (data provided by SOC Code): 3,529 Workers in service area in SOC codes of professions needing expertise in soil analysis using extraction equipment. ● EMSI Data: 3,709 workers needed in service area in SOC codes of professions above by 2021. That is an increase of 5.1% in five years.
<p>Briefly describe how the gap(s) will be addressed (Briefly describe how the issue(s) will be addressed)</p>	<p>Core 3 – Having enough soil hydrometers to run an effective and efficient lab will reduce student frustration and allow each student to have a better hands-on experience learning experience.</p> <p>Core 4 - The skills developed by using this equipment is absolutely necessary to obtain employment as a Certified Crop Advisor, Soil Scientist in the industry.</p>
<p>Measurement or Evidence of Project Success</p>	<ul style="list-style-type: none"> ● Identify specific core indicator measures to be improved/evidence: Core 3 – Persistence, as evidenced by improvement in Perkins IV Core Data Core 4 - Employment, as evidenced by improvement in Perkins IV Core Data ● Other measures to be improved/evidence:

Description of Project Activities and Spending Plan (add or delete rows as needed):

No.	Describe Activity	Timeline	Must Reference Requ'd. Use	Approx Amount of Funds Requested	Object Code	Description of Vendor
3.0	Obtain five new soil hydrometers for the Soil B1 and Crops B5 labs	All materials should be obtained by fall semester 2017	Core 3 Core 4	\$300	6000 equipment	Grainger Industrial Supply
<p>Describe project details including:</p> <ul style="list-style-type: none"> • who will responsible for project • when it will be done • what outcomes are expected or targeted and • how/when/who assessment will be reported 						
<ol style="list-style-type: none"> 1. Who will responsible for project? Greg Cluff 2. When it will be done? By fall 2017 semester 3. What outcomes are expected or targeted? Allow students to effectively and efficiently use common equipment for measuring important soil parameters and give them hands-on experience needed to obtain jobs in the industry. 4. How/when/who assessment will be reported? Beginning in fall 2017, Core 3 and Core 4 indicator data will be tracked to see if there is an uptick in persistence and employment. 						