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COMPLETE

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Page 1: Please review the following:

Q1

Contact Person:

Name	Robert Anness
Email Address	robert.anness@gcccd.edu

Q2

Department:

Chemistry Department

Q3

Title of Request:

Analytical Balances replacement

Q4

Location of Request:

H Building Chemistry labs

Q5**Equipment**

Type of Request (Select one):

Q6

Description of Request: Please provide a description of the supplies, equipment, furniture or other request. When making your request, please be as specific as possible and include information such as make, model, manufacturer, color, quantity, etc.

The Chemistry Department is requesting 8 analytical balances to replace old equipment. The ones we are requesting are Pioneer PX Balances (120 g x 0.0001 mg) distributed through VWR (Catalog number 76289-402).

Q7

Estimated Cost:

\$13,600 (See attached quote)

Q8

Please attach quote, if available

Cuyamaca%20College%20Casillas%20Quote%208031996040%20revised%2011-23-2022.pdf (97.6KB)

Q9

Total Cost of Ownership: Your requested item may incur ongoing expenses. Please consider any and all costs associated with your requested item. What are the ongoing expenses associated with your request? If there are ongoing expenses, please detail how you plan to support these costs with your existing budget. Examples include yearly service agreements, warranties, 5-year replacement costs, maintenance, upgrades, and impacts to staffing, etc.

Total Cost of Ownership: \$13,600 + \$608/year for annual service.

This request can be maintained with service contracts that are already funded by the college, and the chemistry budget can handle additional costs when needed.

Q10

Justification of Request: The justification of the request is a key area to focus on. The ROC encourages you to strengthen your request by providing a robust rationale detailing all relevant criteria. When writing the rationale, keep in mind that those reviewing the justification may not be familiar with your department and needs. Providing detailed information and context can help clarify the need for your request. Please select the applicable criteria(s) and provide the details of how the criteria(s) relate to your request.

Health and safety,

Critical need,

Program expansion,

Impact on student success and access,

Equity and Antiracism,

Provided details::

As of Spring 2019, we recently expanded our chemistry laboratory capacity by adding a third lab classroom. Since this new classroom is located in the H-building annex, it is detached from our other lab classrooms, and requires its own set of equipment that cannot be shared with the classes located on the second floor of the H-Building. One type of equipment that falls under this category are the analytical balances. The department ordered a new set of balances to meet this need upon the opening of the new lab. However, we still have a large supply of analytical balances in use that were purchased 20 or more years ago, and some of them are already starting to fail. Since these balances are in many ways obsolete, repair costs can be more than half the cost of buying a new one, which is not ideal since these items are reaching the end of their lifespan. Since these analytical balances are used in the majority of our lab sessions, they represent a critical need for our department. Student success in the chemistry laboratory relies heavily on access to reliable equipment, and analytical balances are among the most fundamental. Moreover, when we have equipment down and more students are forced to use a smaller supply, it can cause more students to congregate in smaller areas of the lab while they wait in line to use the equipment. This can exacerbate student stress in the lab as well, and these factors can lead to safety hazards in the context of a chemistry lab. Students from disproportionately impacted groups can tend to feel these stresses more acutely as they are compounded with other societal and institutional inequities.

Q11

Program Goal: Please identify the program goal(s), as stated in your current annual or comprehensive program review, that this request would help your program achieve. Provide a brief explanation of how it would do so.

One of our core goals is to increase success and retention rates in our introductory Chemistry 120 class. Most of the aging analytical balances are currently being used by students in our Chemistry 120 class sections. This is a pre-transfer level course and unfortunately, it has the lowest success and retention rates of any of our chemistry classes. Our program is working on multiple fronts to try and increase success and retention rates, while eliminating equity gaps. As previously mentioned, a shortage of properly functioning equipment can create bottlenecks that can lead to time-stress for students. Anything we can do to reduce student stress in these lab classes should have a positive effect on success and retention rates.