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Collector: Live Link (Web Link)
Started: Sunday, February 10, 2019 9:34:24 PM
Last Modified: Sunday, February 10, 2019 9:56:10 PM
Time Spent: 00:21:46
IP Address: 75.50.126.140

Page 1: For Annual Planning/Program Review Requests

Q1 Technology Plan Year **2019-2020**

Q2 Title of Request

Physics Demonstration Camera

Q3 Location of Request

H-223

Q4 Discipline

Physics

Q5 Department

Math, Science, and Engineering

Q6 Contact Person

Name	Miriam Simpson
Email Address	miriam.simpson@gcccd.edu

Q7 Description Please provide a brief description of the technology/software or technology project and its core goal(s).

The physics department has spent a lot of time and money designing, purchasing, and implementing demonstrations for all our courses. Some of these are hard to see because they are small and in a class of 32 only those closest really get to see what's going on. A demonstration camera hooked to the projector would make this material much more accessible and could also facilitate live and recorded demo videos for future online classes.

Page 2: Proposal Justification

Technology Request Form

Q8 Please explain how the technology or enhancement supports the strategic plan. Include information on how students will be impacted and/or employees or the college or district overall. Consider whether this would be a district-wide implementation. Which Strategic Plan priority (or priorities) are supported by this request? To access the Strategic Plan, please click here.

Guided Student Pathways,
Student Validation and Engagement

Q9 How does the request support the above priorities?

Demonstrations are a key part of active learning in physics and a camera will make them more accessible to students both in and out of the classroom.

Q10 Who would this impact? Please select all that apply. **Students**

Q11 How would this impact the above group(s)?

This sort of accessibility helps us reach students with disabilities and students who have to miss class due to work or family obligations as well as online students.

Q12 Does the technology support a state-wide initiative or is it a legal mandate or in support of a legal mandate?

No

Q13 If yes, please explain how the technology supports a state-wide initiative or is it a legal mandate or in support of a legal mandate?

Respondent skipped this question

Q14 Please be aware that projects, once approved, are typically scheduled 6 months to a year in advance. Consider the consequences if the technology/software is not implemented, upgraded or renewed. What are the consequences if the technology/software is not implemented/upgraded, or renewed? Examples: Security concerns, loss of FTES, mandates, accreditation, etc.

We will not be able to effectively use all of our demos, representing thousands of dollars already invested. We will also be unable to move forward with some development for online content.

Q15 What is the number of students impacted per semester if the technology/software is not implemented, upgraded or renewed?

280

Q16 What is your preferred time for implementation?

Fall 2019

Technology Request Form

Q17 Tell us how the data you have supports the implementation of the technology. This can be qualitative or quantitative in the form of surveys, observations, SLO or other assessment data, institutional research data or other reports and data.

The use of physics demonstrations is part of a highly interactive technique of student engagement.

<https://www.aps.org/publications/apsnews/201005/demo.cfm>

Q18 Please attach any supporting data/documentation using the "Upload" button below.

Respondent skipped this question

Page 3: COST ANALYSIS

Q19 Is the request for hardware or software?

Hardware

Q20 Is the request for new or an upgrade to existing technology?

New (new to the campus)

Q21 Estimated or known total initial cost of request: This includes hardware and software maintenance, licences, taxes, fees, shipping, storage, etc.

779.75

Q22 Funding Source:

General Fund

Q23 Please attach quote using the "Upload" button below.

PASCO Video Q-2797629.pdf (117.3KB)

Q24 Evaluationi. How do you plan to evaluate the technology after implementation?

We will look at SLO topics related to the demonstrations and online student feedback.

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Q25 Are you ready to submit your technology request?

Yes
