Planning and Budget Council Summary Sheet

**Part I. General Information**

- **Unit, Department or Program:** Natural Sciences, Aquaculture Program
- **Date of request:** 11/16/09
- **Date required by:** 08/01/10
- **Start date:** 08/01/10

**Type of request:**
- Health and safety
- Program improvement
- New program
- Facilities, R&M
- Other

**Resources requested:**
- Positions part-time APT (coordinator)
- Equipment
- Operating supplies (annual)
- Other 1: construction materials etc.
- Other 2

**Alignment with Strategic Plan:** WCC Action Outcomes 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
(i.e., Action Outcomes 2.1, 4.3)

**Total** $83,000

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**Part II. Narrative - Description and Rationale (do not exceed space provided)**

**Why is this request important?** (what are the most important reasons for this request)
- There is a need to move the WCC aquaculture from its current location on state hospital property to the hospital property to recover the property. This facility has been in operation by the college since the 1970s.
- The current facility supports our aquaculture class, Marine Option Program, and a $1 million 5-year research project.
- The college’s original Master Plan intended for the aquaculture ponds to be moved to the area below the location of the current Agriculture greenhouse.
- The college’s original Master Plan included Building P which was to include an aquaculture facility.
- Building P also included an instructional classroom and laboratory. Revisions of the details for Building P in 1992 included expansions of these functions.
- This building was to be constructed where Hale Uluwadi exists today.

**Descriptive Summary of the Request** (provide a summary of the resource request)
This request proposes to move and expand out existing aquaculture facility as originally specified in the WCC Master Plan. Specifically, this request represents the first phase of the implementation of one of the last incomplete projects of this Master Plan. This first phase focuses primarily on moving the outdoor component of the facility. The funds will be used to carry out the following activities: (1) clearing and grading the land; (2) providing infrastructure (water and electricity); (3) building ponds (upright and earthen ponds); (4) building storage facilities (essentially a shed for tools & equipment); and (5) constructing a covered work area (similar to the existing agricultural shadehouse). Construction of this facility, as occurred with the original facility, will involve participation of our students, thus providing technical training for these students.

Phase Two (not part of this request) will involve construction of Building P as per the revised details. The request for funds for this phase will be submitted during a subsequent budget period.

**Rationale for Request** (how will the request benefit the unit, department, program or institution; alignment with Strategic Plan and other supporting documents, e.g., program review, annual assessments, department report, etc.)
- We have recently started teaching the AQUA 106/106L (Small Scale Aquaculture) and need a facility for continued instruction. We will also be teaching AQUA 201/211 (The Hawaiian Fishpond).
- Use of these facilities for instruction would support implementing a sustainability curriculum involving biotechnology, freshwater aquaculture, mariculture, and hydroponics.
- In partnership with the Pacific American Foundation and the Hawai'i Institute of Marine Biology, WCC recently received a HUD grant for $800,000 to purchase Waikahalalo, a traditional Hawaiian fishpond located at the mouth of Kane'ohoe and Kawa Streams. We will be building Natural Science curriculum around this pond that integrates traditional resource management with modern technology. Our on-campus facility would enhance the work done at Waikahalalo.
- We have an opportunity to secure substantial funds by partnering with the Hawai'i Institute of Marine Biology to construct an aquatic quarantine facility. Such a facility is needed to study diseases in aquatic organisms, especially coral and marine fishes. There is also a need to study disease in freshwater cultured species. This facility, which is really an expansion of Building P, would include an instructional lab and classroom dedicated to instruction in microbiology, cell and molecular biology, and biotechnology.
- The State of Hawai'i Aquaculture Development Program (ADP) is looking for a site to facilitate its support of commercial aquaculture farmers. Our facility could support this application in ways that would help our students understand and engage in practical application. ADP hopes to use such a site as a revenue-generating facility. So it could be self-supporting.

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**Part III. Evaluation**

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